

Missouri Department of Natural Resources
Air Pollution Control Program

PART 70

PERMIT TO OPERATE

Under the authority of RSMo 643 and the Federal Clean Air Act the applicant is authorized to operate the air contaminant source(s) described below, in accordance with the laws, rules, and conditions set forth here in.

Operating Permit Number: OP2006-041
Expiration Date: JUL 12 2011
Installation ID: 099-0044
Project Number: 2004-05-013

Installation Name and Address

Metal Container Corporation
42 Tenbrook Industrial Park
Arnold, MO 63010
Jefferson County

Parent Company's Name and Address

Anheuser-Busch Packaging Group, Inc.
3636 South Geyer Road
St. Louis, MO 63127-1218

Installation Description:

Metal Container Corporation operates an aluminum can production installation in Arnold, Missouri. The installation manufactures two-piece aluminum beverage cans, consisting of can forming, coating, drying and curing. The installation has four can coating lines which apply basecoat, ink, over varnish, bottom varnish, and inside spray.

JUL 13 2006

Effective Date

Director or Designee
Department of Natural Resources

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I. Installation Description and Equipment Listing

INSTALLATION DESCRIPTION

Metal Container Corporation operates an aluminum can production installation in Arnold, Missouri. The installation manufactures two-piece aluminum beverage cans, consisting of can forming, coating, drying and curing. The installation has four can coating lines which apply basecoat, ink, over varnish, bottom varnish, and inside spray.

The reported actual emissions for the past five years for the installation are listed below:

Reported Air Pollutant Emissions, tons per year							
Year	Particulate Matter ≤ Ten Microns (PM-10)	Sulfur Oxides (SO _x)	Nitrogen Oxides (NO _x)	Volatile Organic Compound s(VOC)	Carbon Monoxide (CO)	Lead (Pb)	Hazardous Air Pollutants (HAPs)
2001	2.33	0.06	10.45	117.71	8.77	—	0.06
2002	2.36	0.06	10.34	126.69	8.69	—	0.03
2003	2.35	0.07	10.87	132.70	9.12	—	38.34
2004	2.28	0.07	10.59	125.22	8.87	—	0.04
2005	2.29	0.07	10.92	116.64	9.15	—	0.04

EMISSION UNITS WITH LIMITATIONS

The following list provides a description of the equipment at this installation which emits air pollutants and which is identified as having unit-specific emission limitations.

Emission Unit #	Description of Emission Unit
EU0020 – EU0024	Five (5) Printer Ovens
EU0030 – EU0033	Inside Spray Bake Ovens
EU0034	Respray Machine
EU0040	Back-Up Fire Pump
EU0080 – EU0107	Bodymaker/Trimmer
EU0110 – EU0113	Wet Can Elevators
EU0120 – EU0122	Basecoaters
EU0130 – EU0132	Basecoater Ovens
EU0140 – EU0144	Inside Spray Machines
EU0150 – EU0154	Varnishers
EU0160 – EU0164	Printers

EMISSION UNITS WITHOUT LIMITATIONS

The following list provides a description of the equipment that does not have unit specific limitations at the time of permit issuance.

EIQ	
Reference #	Description of Emission Unit
B005	Three Catalytic Oxidizers [identified as EU0010 in the initial P70 permit]
M001	Grinder [identified as EU0060 in the initial P70 permit]
P001	Four Cuppers [identified as EU0070 – EU0073 in the initial P70 permit]
P003	Can Washer Ovens
B006	21 Space Heaters – Total Rating 2.5 MMBtu/hr (All units less than 350,000 Btu/hr)
T001	D & I Lube Aboveground Storage Tank (10,000 – Gallons)
T002	Basecoat Aboveground Storage Tank (10,000 – Gallons)
T002A	Basecoat Aboveground Day Tank (500 – Gallons)
T002A	Varnish Aboveground Day Tanks (2 x 500 – Gallons)
T003	Varnish Aboveground Storage Tank (10,000 – Gallons)
T004	Inside Spray Aboveground Storage Tank (10,000 – Gallons)
T004A	Inside Spray Aboveground Day Tanks (3 x 500 – Gallons)
T005	Two (2) Diesel Fuel Tanks: 1 x 900 – Gallon (Firewater Pump) 1 x 1,000 – Gallon (Fuel Tank)
T008	Used Oil Tanks (3 x 3,000 Gallons)
T009	White Ink Toto Tanks
T010	Oil Skimmer Collection Tank
T011	Propane Tank (Bullet)
T012	Polymer Tank
W001	Waste Water Treatment System
B001	Nine (9) Make-Up Air Units
B002	Fire Water Heater
B003	Three (3) Natural Gas Fired Boilers (6.3 MMBtu/hr each)
B004	Natural Gas Fired Water Heaters (2.6 MMBtu/hr)

DOCUMENTS INCORPORATED BY REFERENCE

These documents have been incorporated by reference into this permit.

- 1) Construction Permit Numbers 0279-001 to 0279-017
- 2) Construction Permit Number 0589-001A
- 3) Construction Permit Number 0789-003
- 4) Construction Permit Number 0893-028

II. Plant Wide Emission Limitations

The installation shall comply with each of the following emission limitations. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect as of the date that this permit is issued.

Permit Condition PW001

10 CSR 10-6.220

Restriction of Emission of Visible Air Contaminants

Emission Limitation:

1. No owner or other person shall cause or permit emissions to be discharged into the atmosphere from any new source any visible emissions with an opacity greater than 20%.
2. Exception: A person may discharge into the atmosphere from any source of emissions for a period(s) aggregating not more than six (6) minutes in any 60 minutes air contaminants with an opacity up to 60%.

Monitoring:

1. The permittee shall conduct opacity readings on this emission unit using the procedures contained in USEPA Test Method 22. At a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind and the presence of uncombined water. Readings are only required when the emission unit is operating and when the weather conditions allow. If no visible or other significant emissions are observed using these procedures, then no further observations would be required. For emission units with visible emissions perceived or believed to exceed the applicable opacity standard, the source representative would then conduct a Method 9 observation.
2. The following monitoring schedule must be maintained:
 - a) Monthly observations shall be conducted for a minimum of eight consecutive months after permit issuance. Should no violation of this regulation be observed during this period then-
 - b) Observations must be made once every two (2) months for a period of eight months. If a violation is noted, monitoring reverts to monthly. Should no violation of this regulation be observed during this period then-
 - c) Observations must be made semi-annually (i.e., once per reporting period). Observation shall be conducted during the January-June reporting period and during the July-December reporting period. If a violation is noted, monitoring reverts to monthly.
3. If the source reverts to monthly monitoring at any time, monitoring frequency will progress in an identical manner from the initial monitoring frequency.

Recordkeeping:

1. The permittee shall maintain records of all observation results (see Attachment A-1 or A-2), noting:
 - a) Whether any air emissions (except for water vapor) were visible from the emission units,
 - b) All emission units from which visible emissions occurred, and
 - c) Whether the visible emissions were normal for the process.
2. The permittee shall maintain records of any equipment malfunctions.
3. The permittee shall maintain records of any Method 9 test performed in accordance with this permit condition. (see Attachment A-3)
4. Attachments A-1, A-2 and A-3 contain logs including these recordkeeping requirements. These logs, or an equivalent created by the permittee, must be used to certify compliance with this requirement.

Reporting:

1. The permittee shall report to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after the permittee determined using the Method 9 test that the emission unit(s) exceeded the opacity limit.
2. Reports of any deviations from monitoring, recordkeeping and reporting requirements of this permit condition shall be submitted semiannually, in the semi-annual monitoring report and annual compliance certification, as required by Section V of this permit.

Permit Condition PW002

10 CSR 10-6.060

Construction Permits Required

Construction Permit Number 0279-001 to 0279-017

Emission Limitation:

1. Hydrocarbon emissions from the plant at capacity production will be no more than 560 tons per year.
2. Monthly hydrocarbon emissions are limited to forty-six (46) tons in the months of February, April, June and November. Monthly hydrocarbon emissions are limited to forty-seven (47) tons in the months of January, March, May, August, September and December.

Monitoring/Recordkeeping:

1. The permittee shall monitor the monthly usage of material containing organic solvents and the organic solvent content of those materials.
2. Records shall be kept of the monthly usage of each material containing an organic solvent and organic solvent content thereof.
3. Attachment B contains a recordkeeping form which includes these recordkeeping requirements. This recordkeeping sheet, or an equivalent created by the permittee, must be used to certify compliance with the emission limitations of this permit condition.

Reporting:

1. Within sixty (60) days after the end of each calendar year, the permittee shall report to the Missouri Department of Natural Resources the following information:
 - a) The total number of beverage cans produced at its plant,
 - b) The total amount of coatings and solvents used at its plant, and
 - c) The total amount of hydrocarbon emissions from its plant.
2. Reports of any deviations from monitoring and recordkeeping requirements of this permit condition shall be submitted semiannually, in the semi-annual monitoring report and annual compliance certification, as required by Section V of this permit.

$$DAVG_{vw} = \frac{\sum_{i=1}^n (A_i \times B_i)}{C}$$

Where:

A = daily gallons each coating used (minus water and exempt solvents)

B = lbs. VOC/gal. coating (minus water and exempt solvents)

C = total daily gallon coatings used (minus water and exempt solvents)

n = number of all coatings used

- a) The permittee shall determine on a daily basis the volume of coatings consumed, as delivered to the coating applicator(s).
- b) The permittee shall determine the composition of the coatings by formulation data supplied by the manufacturer of the coating or from data determined by an analysis of each coating, as received, by EPA Reference Method 24. MDNR may require the owner or operator who uses formulation data supplied by the manufacturer of the coating to determine data used in the calculation of the VOC content of coatings by EPA Reference Method 24 or an equivalent or alternative method.

Recordkeeping:

1. The permittee who uses compliance coatings as required by Monitoring 1 of this permit condition to meet the applicable emission limitations shall maintain a record of the VOC content, in lbs per gallon (Material Safety Data Sheets, etc.), of all coatings used in this surface coating operation.
2. The permittee who uses daily volume-weighted average as required by Monitoring 2 of this permit condition to comply with the applicable emission limitation shall maintain the following records:
 - a) The owner or operator of a coating line shall keep records detailing specific VOC sources, as necessary to determine compliance (see Attachment D-1 and D-2). These may include:
 - (i) The type and the quantity of coatings used daily;
 - (ii) The coatings manufacturer's formulation data for each coating;
 - (iii) The type and quantity of solvents for coating, thinning, purging and equipment cleaning used daily;
 - (iv) All test results to determine capture and control efficiencies, transfer efficiencies and coating makeup;
 - (v) The type and quantity of waste solvents reclaimed or discarded daily;
 - (vi) The quantity of pieces of materials coated daily; and
 - (vii) Any additional information pertinent to determine compliance.
 - b) Records such as daily production rates may be substituted for actual daily coating use measurement provided the owner submits a demonstration approvable by the director that such records are adequate for the purpose of this rule. This will apply until EPA issues national daily emissions recordkeeping protocols for specific industrial classifications.

Reporting:

The permittee shall report to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any deviation from or exceedance of any of the terms imposed by this regulation, or any malfunction which causes a deviation from or exceedance of this regulation.

Permit Condition EU0023-002 through EU0024-002

10 CSR 10-6.070

New Source Performance Regulations

40 CFR Part 60 Subpart WW

Standards of Performance for the Beverage Can Surface Coating Industry

Emission Limitation:

On or after the date on which the initial performance test required by §60.8(a) is completed, no owner or operator subject to the provisions of this subpart shall discharge or cause the discharge of VOC emissions to the atmosphere that exceed the volume-weighted calendar-month average emissions of 0.46 kilogram of VOC per litre of coating solids from each two-piece can clear base coating operation and from each overvarnish coating operation. [§60.492(b)]

Performance Test and Compliance Provisions:

Pursuant to §60.493 (b) the owner or operator shall use the following procedures each calendar month for each affected facility that does not use a capture system and a control device to comply with the emission limit specified under §60.492:

1. The owner or operator shall determine the VOC-content of the coatings from formulation data supplied by the manufacturer of the coating or by an analysis of each coating, as received, using Method 24. The Administrator may require the owner or operator who uses formulation data supplied by the manufacturer of the coating to determine the VOC content of coatings using Method 24 or an equivalent or alternative method. The owner or operator shall determine from company records the volume of coating and the mass of VOC-solvent added to coatings. If a common coating distribution system serves more than one affected facility or serves both affected and existing facilities, the owner or operator shall estimate the volume of coating used at each facility by using the average dry weight of coating, number of cans, and size of cans being processed by each affected and existing facility or by other procedures acceptable to the Administrator. [§60.493(b)(1)]
 - a) Calculate the volume-weighted average of the total mass of VOC per volume of coating solids used during the calendar month for each affected facility, except as provided under §60.493(b)(1)(iv). The volume-weighted average of the total mass of VOC per volume of coating solids used each calendar month will be determined by the following procedures. [§60.493(b)(1)(i)]
 - (i) Calculate the mass of VOC used ($M_o + M_d$) during the calendar month for the affected facility by the following equation: [§60.493(b)(1)(i)(A)]

$$M_o + M_d = \sum_{i=1}^n L_{ci} D_{ci} W_{oi} + \sum_{j=1}^m L_{dj} D_{dj}$$

[$\sum L_{dj} D_{dj}$ will be 0 if no VOC solvent is added to the coatings, as received.]

Where:

M_o = the mass of VOC-solvent in coatings consumed, as received (kilograms)

M_d = the mass of VOC-solvent added to coatings (kilograms)

L_c = the volume of each coating consumed, as received (liters)

D_c = density of each coating, as received (kilograms per liter)

W_o = the proportion of VOC in each coating, as received (fraction by weight)

L_d = the volume of each VOC-solvent added to coatings (liters)

D_d = density of each VOC-solvent added to coatings (kilograms per liter)

n = the number of different coatings used during the calendar month

m = the number of different diluent VOC-solvents used during the calendar month

- (ii) Calculate the total volume of coating solids used (L_s) in the calendar month for the affected facility by the following equation: [§60.493(b)(1)(i)(B)]

$$L_s = \sum_{i=1}^n L_{ci} V_{si}$$

Where:

L_c = the volume of each coating consumed, as received (liters)

V_s = the proportion of solids in each coating, as received (fraction by volume)

n = the number of different coatings used during the calendar month

- (iii) Calculate the volume-weighted average mass of VOC per volume of solids used (G) during the calendar month for the affected facility by the following equation: [§60.493(b)(1)(i)(C)]

$$G = \frac{M_o + M_d}{L_s}$$

Where:

G = the volume-weighted average of VOC in coatings consumed in a calendar month per volume of coating solids applied (kilograms per liter of coating solids)

M_o = the mass of VOC-solvent in coatings consumed, as received (kilograms)

M_d = the mass of VOC-solvent added to coatings (kilograms)

L_s = the volume of coating solids consumed (liters)

- b) Calculate the volume-weighted average of VOC emissions discharged to the atmosphere (N) during the calendar month for the affected facility by the following equation: [§60.493(b)(1)(ii)]

$$N = G$$

Where:

G = the volume-weighted average of VOC in coatings consumed in a calendar month per volume of coating solids applied (kilograms per liter of coating solids)

N = the volume-weighted average of VOC in coatings consumed in a calendar month per volume of coating solids applied (kilograms per liter of coating solids)

- c) Where the value of the volume-weighted average mass of VOC per volume of solids discharged to the atmosphere (N) is equal to or less than the applicable emission limit specified under §60.492, the affected facility is in compliance. [§60.493(b)(1)(iii)]
- d) If each individual coating used by an affected facility has a VOC content equal to or less than the limit specified under §60.492, the affected facility is in compliance provided no VOC-solvents are added to the coating during distribution or application. [§60.493(b)(1)(iv)]

Recordkeeping/Reporting:

1. The owner or operator shall identify, record, and submit quarterly reports to the Administrator of each instance in which the volume-weighted average of the total mass of VOC per volume of coating solids is greater than 0.46 kilogram of VOC per litre of coating solids. If no such instances occur during a particular quarter, a report stating this shall be submitted to the Administrator semiannually. [§60.495(b)]
2. The owner or operator shall maintain at the source, for a period of at least two years, records of all data and calculations used to determine VOC emissions from each affected facility in the initial and monthly performance tests. [§60.495(d)]

Permit Condition EU0023-003 through EU0024-003

10 CSR 10-6.060

Construction Permits Required

Construction Permit No.: 0893-028

Emission Limitation:

Emissions of volatile organic compounds from Line 4 shall not exceed 68.4 tons in any consecutive 12-month period.

Note: This emission limit applies to Line 4 which includes two printer/varnisher ovens (EU0023 & EU0024), inside spray bake oven (EU0033), inside spray machine (EU0143), two varnishers (EU0153 & EU0154) and two printers (EU00163 & EU0164).

Monitoring/Recordkeeping

The permittee shall record the monthly and 12-month rolling totals of VOC (in tons) emitted from Line 4 (see Attachment F). This shall be done by mathematically manipulating manufacturers' formulation data for coatings, solvents and any other VOC-containing liquids used in the operations at this Line as well as monthly and 12-month rolling total usage rate figures for these various VOC-containing liquids. The monthly and 12-month rolling total VOC emission rates shall be recorded along with the calculations that determine these emission rates. All parameters used in determining the VOC emissions, such as gallons or pounds used, density, pounds of VOC per gallon, percent VOC by weight, etc. shall be distinctly noted in the same records. These records and updated MSDSs (Material Safety and Data Sheets) for all VOC containing liquids shall be kept on hand at all times.

Reporting:

1. The permittee shall report to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after the permittee determined that the emission unit(s) exceeded the emission limitation listed above.
2. Reports of any deviations from monitoring, recordkeeping and reporting requirements of this permit condition using the semi-annual monitoring report and annual compliance certification to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as required by 10 CSR 10-6.065(6)(C)1.C.(III)

EU0030 through EU0034 Inside Spray and Respray Bake Ovens			
EU ID	EIQ Reference # (Year)	General Description	Manufacturer/ Model #
EU0030	P006 (2004)	Line 1 Inside Spray Bake Oven – 4.2 MMBtu/hr natural gas or propane fired bake oven (installed 1979). VOC emissions controlled by the use of catalytic oxidizer	Dispatch 105 MGH
EU0031	P006 (2004)	Line 2 Inside Spray Bake Oven - 4.2 MMBtu/hr natural gas or propane fired bake oven (installed 1979). VOC emissions controlled by the use of catalytic oxidizer	Dispatch 105 MGH
EU0032	P006 (2004)	Line 3 Inside Spray Bake Oven - 4.2 MMBtu/hr natural gas or propane fired bake oven (installed 1979) VOC emissions controlled by the use of catalytic oxidizer	Dispatch 105 MGH
EU0033	P006 (2004)	Line 4 Inside Spray Bake Oven - 4.2 MMBtu/hr natural gas or propane fired bake oven (installed 1986) VOC emissions controlled by the use of catalytic oxidizer	FECO DG-250
EU0034	P006 (2004)	Respray Inside Bake Oven - 4.2 MMBtu/hr natural gas or propane fired bake oven (respray machine installed 1989) VOC emissions controlled by the use of catalytic oxidizer	Reynolds DG-250

Permit Condition EU0030-001 through EU0034-001

10 CSR 10-5.330

Control of Emissions From Industrial Surface Coating Operations

Emission Limitation:

The permittee shall not emit to the atmosphere any VOC from each two-piece can inside spray bake oven operation in excess of 4.2 pounds per gallon of coating (minus water and non-VOC organic compounds).

Monitoring:

The permittee shall use one of the following methods for determining the daily volume-weighted average pounds of VOC emitted per gallon of coating (minus water and non-VOC organic compounds):

1. Application of compliant coatings with records sufficient to demonstrate that the VOC content of each coating applied is less than 4.2 pounds per gallon of coating (minus water and non-VOC organic compounds). Or
2. Calculate the daily volume-weighted average (DAVG_{VW}) of all coatings used as delivered to the coating applicator(s) using the following formula found at 10 CSR 10-5.330(5)(B), only if any non-compliant coating(s) is applied:

$$DAVG_{VW} = \frac{\sum_{i=1}^n (A_i \times B_i)}{C}$$

Where:

A = daily gallons each coating used (minus water and exempt solvents)

B = lbs. VOC/gal. coating (minus water and exempt solvents)

C = total daily gallon coatings used (minus water and exempt solvents)

n = number of all coatings used

- a) The permittee shall determine on a daily basis the volume of coatings consumed, as delivered to the coating applicator(s).

- b) The permittee shall determine the composition of the coatings by formulation data supplied by the manufacturer of the coating or from data determined by an analysis of each coating, as received, by EPA Reference Method 24. MDNR may require the owner or operator who uses formulation data supplied by the manufacturer of the coating to determine data used in the calculation of the VOC content of coatings by EPA Reference Method 24 or an equivalent or alternative method.

Recordkeeping:

1. The permittee who uses compliance coatings as required by Monitoring 1 of this permit condition to meet the applicable emission limitations shall maintain a record of the VOC content, in lbs per gallon (Material Safety Data Sheets, etc.), of all coatings used in this surface coating operation.
2. The permittee who uses daily volume-weighted average as required by Monitoring 2 of this permit condition to comply with the applicable emission limitation shall maintain the following records:
 - a) The owner or operator of a coating line shall keep records detailing specific VOC sources, as necessary to determine compliance (see Attachment D-1 and D-2). These may include:
 - (i) The type and the quantity of coatings used daily;
 - (ii) The coatings manufacturer's formulation data for each coating;
 - (iii) The type and quantity of solvents for coating, thinning, purging and equipment cleaning used daily;
 - (iv) All test results to determine capture and control efficiencies, transfer efficiencies and coating makeup;
 - (v) The type and quantity of waste solvents reclaimed or discarded daily;
 - (vi) The quantity of pieces of materials coated daily; and
 - (vii) Any additional information pertinent to determine compliance.
 - b) Records such as daily production rates may be substituted for actual daily coating use measurement provided the owner submits a demonstration approvable by the director that such records are adequate for the purpose of this rule. This will apply until EPA issues national daily emissions recordkeeping protocols for specific industrial classifications.

Reporting:

The permittee shall report to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any deviation from or exceedance of any of the terms imposed by this regulation, or any malfunction which causes a deviation from or exceedance of this regulation.

Permit Condition EU0030-002 through EU0034-002

10 CSR 10-6.060

Construction Permits Required

Construction Permit No.: 0789-003

Emission Limitation:

1. The permittee shall maintain the Farr Tenkey 84 L aspirated cartridge filter system used to collect particulate matter emissions from the inside spray bake ovens to be fully operational at all times the inside bake ovens are operating.
2. The emissions from the cartridge filter exhaust, on annual basis shall not exceed the emission rates established in 10 CSR 10-6.020(3)(A), Table 1 – *De Minimis Emission Levels*.

Monitoring/Recordkeeping:

The permittee shall monitor and record the throughput of material, filter exit gas flow rate and other parameters necessary to calculate or measure the annual emissions from this source.

Reporting:

1. The permittee shall annually report the annual emissions from this source.
2. The permittee shall report any deviations/exceedances of this permit condition using the semi-annual monitoring report and annual compliance certification to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as required by 10 CSR 10-6.065(6)(C)1.C.(III).

Permit Condition EU0032-003

10 CSR 10-6.060

Construction Permits Required

Construction Permit No.: 0589-001A (Amended)

Emission Limitation:

Total VOC emissions from Line 3 inside spray coating operation (EU0032 and EU0142, line 3 inside spray bake oven and spray machine) shall not exceed 28.24 tons in any consecutive 12-month period.

Monitoring/Recordkeeping:

1. The permittee shall maintain monthly records on site, covering a period to include at least the previous two calendar years which show:
 - a) The name and quantities, in gallons per month, of each inside spray coating used;
 - b) The density, in pounds per gallon, of each inside spray coating used;
 - c) The VOC fraction, by weight, of each inside spray coating used;
 - d) The VOC capture efficiency for the inside spray operation;
 - e) The destruction efficiency of the thermal oxidizer for the inside spray operation; and
 - f) The total VOC emissions for the month and the cumulative total for the previous 12-months total from the inside spray operation based on the above data.
2. Each sheet of the above records shall include the following statement: "I (we) have entered the numbers on the record, and do hereby attest by my (our) signature(s) below that this record contains the actual correct and accurate information it portrays." This statement shall then be signed by all personnel involved with recording the numbers. These records shall be accessible to the Missouri Air Pollution Program Enforcement personnel.

Reporting:

1. The permittee shall report to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after the permittee determined that the emission unit(s) exceeded the emission limitation listed above.
2. Reports of any deviations from monitoring, recordkeeping and reporting requirements of this permit condition using the semi-annual monitoring report and annual compliance certification to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as required by 10 CSR 10-6.065(6)(C)1.C.(III)

Permit Condition EU0033-003 through EU0034-003

10 CSR 10-6.070

New Source Performance Regulations

40 CFR Part 60 Subpart WW

Standards of Performance for the Beverage Can Surface Coating Industry

Emission Limitation:

On or after the date on which the initial performance test required by §60.8(a) is completed, no owner or operator subject to the provisions of this subpart shall discharge or cause the discharge of VOC emissions to the atmosphere that exceed the volume-weighted calendar-month average emissions of 0.89 kilogram of VOC per litre of coating solids from each two-piece can inside spray coating operation. [§60.492(c)]

Performance Test and Compliance Provisions:

Pursuant to §60.493 (b) the owner or operator shall use the following procedures each calendar month for each affected facility that does not use a capture system and a control device to comply with the emission limit specified under §60.492:

1. The owner or operator shall determine the VOC-content of the coatings from formulation data supplied by the manufacturer of the coating or by an analysis of each coating, as received, using Method 24. The Administrator may require the owner or operator who uses formulation data supplied by the manufacturer of the coating to determine the VOC content of coatings using Method 24 or an equivalent or alternative method. The owner or operator shall determine from company records the volume of coating and the mass of VOC-solvent added to coatings. If a common coating distribution system serves more than one affected facility or serves both affected and existing facilities, the owner or operator shall estimate the volume of coating used at each facility by using the average dry weight of coating, number of cans, and size of cans being processed by each affected and existing facility or by other procedures acceptable to the Administrator. [§60.493(b)(1)]
 - a) Calculate the volume-weighted average of the total mass of VOC per volume of coating solids used during the calendar month for each affected facility, except as provided under §60.493(b)(1)(iv). The volume-weighted average of the total mass of VOC per volume of coating solids used each calendar month will be determined by the following procedures. [§60.493(b)(1)(i)]
 - (i) Calculate the mass of VOC used ($M_o + M_d$) during the calendar month for the affected facility by the following equation: [§60.493(b)(1)(i)(A)]

$$M_o + M_d = \sum_{i=1}^n L_{ci} D_{ci} W_{oi} + \sum_{j=1}^m L_{dj} D_{dj}$$

[$\sum L_{dj} D_{dj}$ will be 0 if no VOC solvent is added to the coatings, as received.]

Where:

M_o = the mass of VOC-solvent in coatings consumed, as received (kilograms)

M_d = the mass of VOC-solvent added to coatings (kilograms)

L_c = the volume of each coating consumed, as received (liters)

D_c = density of each coating, as received (kilograms per liter)

W_o = the proportion of VOC in each coating, as received (fraction by weight)

L_d = the volume of each VOC-solvent added to coatings (liters)

D_d = density of each VOC-solvent added to coatings (kilograms per liter)

n = the number of different coatings used during the calendar month

m = the number of different diluent VOC-solvents used during the calendar month

- (ii) Calculate the total volume of coating solids used (L_s) in the calendar month for the affected facility by the following equation: [§60.493(b)(1)(i)(B)]

$$L_s = \sum_{i=1}^n L_{ci} V_{si}$$

Where:

L_c = the volume of each coating consumed, as received (liters)

V_s = the proportion of solids in each coating, as received (fraction by volume)

n = the number of different coatings used during the calendar month

- (iii) Calculate the volume-weighted average mass of VOC per volume of solids used (G) during the calendar month for the affected facility by the following equation: [§60.493(b)(1)(i)(C)]

$$G = \frac{M_o + M_d}{L_s}$$

Where:

G = the volume-weighted average of VOC in coatings consumed in a calendar month per volume of coating solids applied (kilograms per liter of coating solids)

M_o = the mass of VOC-solvent in coatings consumed, as received (kilograms)

M_d = the mass of VOC-solvent added to coatings (kilograms)

L_s = the volume of coating solids consumed (liters)

- b) Calculate the volume-weighted average of VOC emissions discharged to the atmosphere (N) during the calendar month for the affected facility by the following equation: [§60.493(b)(1)(ii)]

$$N = G$$

Where:

G = the volume-weighted average of VOC in coatings consumed in a calendar month per volume of coating solids applied (kilograms per liter of coating solids)

N = the volume-weighted average of VOC in coatings consumed in a calendar month per volume of coating solids applied (kilograms per liter of coating solids)

- c) Where the value of the volume-weighted average mass of VOC per volume of solids discharged to the atmosphere (N) is equal to or less than the applicable emission limit specified under §60.492, the affected facility is in compliance. [§60.493(b)(1)(iii)]
- d) If each individual coating used by an affected facility has a VOC content equal to or less than the limit specified under §60.492, the affected facility is in compliance provided no VOC-solvents are added to the coating during distribution or application. [§60.493(b)(1)(iv)]

Recordkeeping/Reporting:

1. The owner or operator shall identify, record, and submit quarterly reports to the Administrator of each instance in which the volume-weighted average of the total mass of VOC per volume of coating solids is greater than 0.89 kilogram of VOC per litre of coating solids. If no such instances occur during a particular quarter, a report stating this shall be submitted to the Administrator semiannually. [§60.495(b)]
2. The owner or operator shall maintain at the source, for a period of at least two years, records of all data and calculations used to determine VOC emissions from each affected facility in the initial and monthly performance tests. [§60.495(d)]

Permit Condition EU0033-004

10 CSR 10-6.060

Construction Permits Required

Construction Permit No.: 0893-028

Emission Limitation:

Emissions of volatile organic compounds from Line 4 shall not exceed 68.4 tons in any consecutive 12-month period.

Note: This emission limit applies to Line 4 which includes two printer/varnisher ovens (EU0023 & EU0024), inside spray bake oven (EU0033), inside spray machine (EU0143), two varnishers (EU0153 & EU0154) and two printers (EU00163 & EU0164).

Monitoring/Recordkeeping

The permittee shall record the monthly and 12-month rolling totals of VOC (in tons) emitted from Line 4 (see Attachment F). This shall be done by mathematically manipulating manufacturers' formulation data for coatings, solvents and any other VOC-containing liquids used in the operations at this Line as well as monthly and 12-month rolling total usage rate figures for these various VOC-containing liquids. The monthly and 12-month rolling total VOC emission rates shall be recorded along with the calculations that determine these emission rates. All parameters used in determining the VOC emissions, such as gallons or pounds used, density, pounds of VOC per gallon, percent VOC by weight, etc. shall be distinctly noted in the same records. These records and updated MSDSs (Material Safety and Data Sheets) for all VOC containing liquids shall be kept on hand at all times.

Reporting:

1. The permittee shall report to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after the permittee determined that the emission unit(s) exceeded the emission limitation listed above.
2. Reports of any deviations from monitoring, recordkeeping and reporting requirements of this permit condition using the semi-annual monitoring report and annual compliance certification to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as required by 10 CSR 10-6.065(6)(C)1.C.(III)

EU0040 Back-up Fire Pump	
General Description:	Number 1 or Number 2 diesel fired emergency back-up fire water pump.
Manufacturer/Model #:	Not Available
EIQ Reference # (Year):	E001 (2004)

Permit Condition EU0040-001

10 CSR 10-6.260

Restriction of Emissions of Sulfur Compounds

Emission Limitation:

1. No person shall cause or permit the emission into the atmosphere gases containing more than 500 parts per million by volume (ppmv) of sulfur dioxide or more than 35 milligrams per cubic meter (mg/m³) of sulfuric acid or sulfur trioxide or any combination of those gases averaged on any consecutive three (3) hour time period.
2. No person shall cause or permit the emission of sulfur compounds from any source which causes or contributes to concentrations exceeding those specified in 10 CSR 10-6.010 Ambient Air Quality Standards. [10 CSR 10-6.260(3)(B) & 10 CSR 10-6.010 Ambient Air Quality Standards]

Operational Limitation/Equipment Specifications:

The emission units shall be limited to burning fuel oil with a sulfur content of no more than 0.5% sulfur by weight. The fuel oils known to be less than 0.5% by weight sulfur per Chapter 414 RSMo, section 414.032, ASTM D396-Table 1 and ASTM D975-Table 1, are fuel oil No. 1 and No. 2 and diesel fuel oil Grade Low Sulfur No. 1-D, Grade Low Sulfur No. 2-D. However, these units are not limited to the known fuel oils listed above, but are limited to fuel oils based solely on having a percent sulfur by weight content of 0.5% or less.

Monitoring/Recordkeeping:

The installation shall maintain records of the fuel type used verifying a sulfur content less than 0.5% by weight. Purchase receipts, analyzed samples or certifications that verify the fuel type as a grade level with a sulfur content less than 0.5% by weight will be acceptable. If this can not be accomplished then compliance to the emission limitations shall be determined by source testing and shall be accomplished as specified in 10 CSR 10-6.030(6) for sulfur dioxide emissions and 10 CSR 10-6.040 for measuring ambient sulfur compound concentrations. Other methods approved by the staff director in advance may be used.

Reporting:

The permittee shall report any deviations/exceedances of this permit condition using the semi-annual monitoring report and annual compliance certification to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as required by 10 CSR 10-6.065(6)(C)1.C.(III).

EU0070 through EU0073 Four Cuppers	
General Description:	Four Cuppers – With Bloapco Cyclone, Constructed 1979
Manufacturer/Model #:	Not Available
EQ Reference # (Year):	P001 (2004)

Permit Condition EU0070-001 through EU0073-001
10 CSR 10-6.400 Restriction of Emission of Particulate Matter from Industrial Processes

Emission Limitation:

1. The permittee shall not emit particulate matter in excess of 5.32 pounds per hour (lbs/hr) from each emission unit.
2. The concentration of particulate matter in the exhaust gases shall not exceed 0.30 grain per standard cubic foot (gr/scf).

Monitoring/Recordkeeping:

1. The permittee shall retain the potential to emit calculations in Attachment E which demonstrate that the above emission limitation will never be exceeded. No further recordkeeping shall be required to demonstrate compliance with the emission limitations.
2. The calculation shall be made available immediately for inspection to the Department of Natural Resources personnel upon request.

Reporting:

1. The permittee shall report to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after the permittee determined that the emission unit(s) exceeded the emission limitation(s) listed above.
2. Reports of any deviations from monitoring, recordkeeping and reporting requirements of this permit condition using the semi-annual monitoring report and annual compliance certification to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as required by 10 CSR 10-6.065(6)(C)1.C.(III).

EU0110 through EU0113 Four Wet Can Elevators	
General Description:	Bodymaker/Trimmer (each unit), Constructed 1979 PM emissions from the wet can elevators are controlled by the use of three cyclones.
Manufacturer/Model #:	Not Available
EIQ Reference # (Year):	P002 (2004)

Permit Condition EU0110-001 through EU0113-001

10 CSR 10-6.400

Restriction of Emission of Particulate Matter from Industrial Processes

Emission Limitation:

1. The permittee shall not emit particulate matter in excess of 4.72 lbs/hr from each unit.
2. The concentration of particulate matter in the exhaust gases shall not exceed 0.30 gr/scf.

Monitoring/Recordkeeping:

1. The permittee shall retain the potential to emit calculations in Attachment E which demonstrate that the above emission limitation will never be exceeded. No further recordkeeping shall be required to demonstrate compliance with the emission limitations.
2. The calculation shall be made available immediately for inspection to the Department of Natural Resources personnel upon request.

Reporting:

1. The permittee shall report to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after the permittee determined that the emission unit(s) exceeded the emission limitation(s) listed above.
2. Reports of any deviations from monitoring, recordkeeping and reporting requirements of this permit condition using the semi-annual monitoring report and annual compliance certification to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as required by 10 CSR 10-6.065(6)(C)1.C.(III).

the manufacturer of the coating to determine data used in the calculation of the VOC content of coatings by EPA Reference Method 24 or an equivalent or alternative method.

Record Keeping:

1. The permittee who uses compliance coatings as required by Monitoring 1 of this permit condition to meet the applicable emission limitations shall maintain a record of the VOC content, in lbs per gallon (Material Safety Data Sheets, etc.), of all coatings used in this surface coating operation.
2. The permittee who uses daily volume-weighted average as required by Monitoring 2 of this permit condition to comply with the applicable emission limitation shall maintain the following records:
 - a) The owner or operator of a coating line shall keep records detailing specific VOC sources, as necessary to determine compliance (see Attachment D-1 and D-2). These may include:
 - i) The type and the quantity of coatings used daily;
 - ii) The coatings manufacturer's formulation data for each coating;
 - iii) The type and quantity of solvents for coating, thinning, purging and equipment cleaning used daily;
 - iv) All test results to determine capture and control efficiencies, transfer efficiencies and coating makeup;
 - v) The type and quantity of waste solvents reclaimed or discarded daily;
 - vi) The quantity of pieces of materials coated daily; and
 - vii) Any additional information pertinent to determine compliance.
- 3) Records such as daily production rates may be substituted for actual daily coating use measurement provided the owner submits a demonstration approvable by the director that such records are adequate for the purpose of this rule. This will apply until EPA issues national daily emissions recordkeeping protocols for specific industrial classifications.

Reporting:

The permittee shall report to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any deviation from or exceedance of any of the terms imposed by this regulation, or any malfunction which causes a deviation from or exceedance of this regulation.

EU0140 through EU0144
Inside Spray Machines

EU ID	EIQ Reference # (Year)	General Description	Manufacturer/ Model #
EU0140	P006 (2004)	Line 1 Inside Spray Machine (installed 1979).	Fisher 102 MSH
EU0141	P006 (2004)	Line 2 Inside Spray Machine (installed 1979).	Fisher 102 MSH
EU0142	P006 (2004)	Line 3 Inside Spray Machine (installed 1989)	Fisher 102 MSH
EU0143	P006 (2004)	Line 4 Inside Spray Machine (installed 1986)	Reynolds DG-250
EU0144	P006 (2004)	Respray Inside Spray Machine (installed 1989)	Reynolds DG-250

Permit Condition EU0140-001 through EU0144-001

10 CSR 10-5.330

Control of Emission From Industrial Surface Coating Operations

Emission Limitation:

The permittee shall not emit to the atmosphere any VOC from each two piece can spray coating operation in excess of 4.2 pounds per gallon of coating (minus water and non-VOC organic compounds).

Monitoring:

The permittee shall use one of the following methods for determining the daily volume-weighted average pounds of VOC emitted per gallon of coating (minus water and non-VOC organic compounds):

1. Application of compliant coatings with records sufficient to demonstrate that the VOC content of each coating applied is less than 4.2 pounds per gallon of coating (minus water and non-VOC organic compounds). Or
2. Calculate the daily volume-weighted average (DAVG_{VW}) of all coatings used as delivered to the coating applicator(s) using the following formula found at 10 CSR 10-5.330(5)(B), only if any non-compliant coating(s) is applied:

$$DAVG_{VW} = \frac{\sum_{i=1}^n (A_i \times B_i)}{C}$$

Where:

A = daily gallons each coating used (minus water and exempt solvents)

B = lbs. VOC/gal. coating (minus water and exempt solvents)

C = total daily gallon coatings used (minus water and exempt solvents)

n = number of all coatings used

- a) The permittee shall determine on a daily basis the volume of coatings consumed, as delivered to the coating applicator(s).
- b) The permittee shall determine the composition of the coatings by formulation data supplied by the manufacturer of the coating or from data determined by an analysis of each coating, as received, by EPA Reference Method 24. MDNR may require the owner or operator who uses formulation data supplied by the manufacturer of the coating to determine data used in the calculation of the VOC content of coatings by EPA Reference Method 24 or an equivalent or alternative method.

Recordkeeping:

1. The permittee who uses compliance coatings as required by Monitoring 1 of this permit condition to meet the applicable emission limitations shall maintain a record of the VOC content, in lbs per gallon (Material Safety Data Sheets, etc.), of all coatings used in this surface coating operation.

2. The permittee who uses daily volume-weighted average as required by Monitoring 2 of this permit condition to comply with the applicable emission limitation shall maintain the following records:
 - a) The owner or operator of a coating line shall keep records detailing specific VOC sources, as necessary to determine compliance (see Attachment D-1 and D-2). These may include:
 - (i) The type and the quantity of coatings used daily;
 - (ii) The coatings manufacturer's formulation data for each coating;
 - (iii) The type and quantity of solvents for coating, thinning, purging and equipment cleaning used daily;
 - (iv) All test results to determine capture and control efficiencies, transfer efficiencies and coating makeup;
 - (v) The type and quantity of waste solvents reclaimed or discarded daily;
 - (vi) The quantity of pieces of materials coated daily; and
 - (vii) Any additional information pertinent to determine compliance.
 - b) Records such as daily production rates may be substituted for actual daily coating use measurement provided the owner submits a demonstration approvable by the director that such records are adequate for the purpose of this rule. This will apply until EPA issues national daily emissions recordkeeping protocols for specific industrial classifications.

Reporting:

The permittee shall report to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any deviation from or exceedance of any of the terms imposed by this regulation, or any malfunction which causes a deviation from or exceedance of this regulation.

Permit Condition EU0142-002 through EU0144-002

10 CSR 10-6.070

New Source Performance Regulations

40 CFR Part 60 Subpart WW

Standards of Performance for the Beverage Can Surface Coating Industry

Emission Limitation:

On or after the date on which the initial performance test required by §60.8(a) is completed, no owner or operator subject to the provisions of this subpart shall discharge or cause the discharge of VOC emissions to the atmosphere that exceed the volume-weighted calendar-month average emissions of 0.89 kilogram of VOC per litre of coating solids from each two-piece can inside spray coating operation. [§60.492(c)]

Performance Test and Compliance Provisions:

Pursuant to §60.493 (b) the owner or operator shall use the following procedures each calendar month for each affected facility that does not use a capture system and a control device to comply with the emission limit specified under §60.492:

1. The owner or operator shall determine the VOC-content of the coatings from formulation data supplied by the manufacturer of the coating or by an analysis of each coating, as received, using Method 24. The Administrator may require the owner or operator who uses formulation data supplied by the manufacturer of the coating to determine the VOC content of coatings using Method 24 or an equivalent or alternative method. The owner or operator shall determine from company records the volume of coating and the mass of VOC-solvent added to coatings. If a common coating distribution system serves more than one affected facility or serves both affected and existing facilities, the owner or operator shall estimate the volume of coating used at each facility by using the average dry weight of coating, number of cans, and size of cans being processed by each affected and existing facility or by other procedures acceptable to the Administrator. [§60.493(b)(1)]
 - a) Calculate the volume-weighted average of the total mass of VOC per volume of coating solids used during the calendar month for each affected facility, except as provided under §60.493(b)(1)(iv). The volume-weighted average of the total mass of VOC per volume of coating solids used each calendar month will be determined by the following procedures. [§60.493(b)(1)(i)]

- (i) Calculate the mass of VOC used ($M_o + M_d$) during the calendar month for the affected facility by the following equation: [§60.493(b)(1)(i)(A)]

$$M_o + M_d = \sum_{i=1}^n L_{ci} D_{ci} W_{oi} + \sum_{j=1}^m L_{dj} D_{dj}$$

[$\sum L_{dj} D_{dj}$ will be 0 if no VOC solvent is added to the coatings, as received.]

Where:

M_o = the mass of VOC-solvent in coatings consumed, as received (kilograms)
 M_d = the mass of VOC-solvent added to coatings (kilograms)
 L_c = the volume of each coating consumed, as received (liters)
 D_c = density of each coating, as received (kilograms per liter)
 W_o = the proportion of VOC in each coating, as received (fraction by weight)
 L_d = the volume of each VOC-solvent added to coatings (liters)
 D_d = density of each VOC-solvent added to coatings (kilograms per liter)
 n = the number of different coatings used during the calendar month
 m = the number of different diluent VOC-solvents used during the calendar month

- (ii) Calculate the total volume of coating solids used (L_s) in the calendar month for the affected facility by the following equation: [§60.493(b)(1)(i)(B)]

$$L_s = \sum_{i=1}^n L_{ci} V_{si}$$

Where:

L_c = the volume of each coating consumed, as received (liters)
 V_s = the proportion of solids in each coating, as received (fraction by volume)
 n = the number of different coatings used during the calendar month

- (iii) Calculate the volume-weighted average mass of VOC per volume of solids used (G) during the calendar month for the affected facility by the following equation: [§60.493(b)(1)(i)(C)]

$$G = \frac{M_o + M_d}{L_s}$$

Where:

G = the volume-weighted average of VOC in coatings consumed in a calendar month per volume of coating solids applied (kilograms per liter of coating solids)
 M_o = the mass of VOC-solvent in coatings consumed, as received (kilograms)
 M_d = the mass of VOC-solvent added to coatings (kilograms)
 L_s = the volume of coating solids consumed (liters)

- b) Calculate the volume-weighted average of VOC emissions discharged to the atmosphere (N) during the calendar month for the affected facility by the following equation: [§60.493(b)(1)(ii)]

$$N = G$$

Where:

G = the volume-weighted average of VOC in coatings consumed in a calendar month per volume of coating solids applied (kilograms per liter of coating solids)

N = the volume-weighted average of VOC in coatings consumed in a calendar month per volume of coating solids applied (kilograms per liter of coating solids)

- c) Where the value of the volume-weighted average mass of VOC per volume of solids discharged to the atmosphere (N) is equal to or less than the applicable emission limit specified under §60.492, the affected facility is in compliance. [§60.493(b)(1)(iii)]
- d) If each individual coating used by an affected facility has a VOC content equal to or less than the limit specified under §60.492, the affected facility is in compliance provided no VOC-solvents are added to the coating during distribution or application. [§60.493(b)(1)(iv)]

Recordkeeping/Reporting:

1. The owner or operator shall identify, record, and submit quarterly reports to the Administrator of each instance in which the volume-weighted average of the total mass of VOC per volume of coating solids is greater than 0.89 kilogram of VOC per litre of coating solids. If no such instances occur during a particular quarter, a report stating this shall be submitted to the Administrator semiannually. [§60.495(b)]
2. The owner or operator shall maintain at the source, for a period of at least two years, records of all data and calculations used to determine VOC emissions from each affected facility in the initial and monthly performance tests. [§60.495(d)]

Permit Condition EU0142-003

10 CSR 10-6.060

Construction Permits Required

Construction Permit No.: 0589-001A (Amended)

Emission Limitation:

Total VOC emissions from Line 3 inside spray coating operation (EU0142 and EU0032, inside spray machine and bake oven) shall not exceed 28.24 tons in any consecutive 12-month period.

Monitoring/Recordkeeping:

1. The permittee shall maintain monthly records on site, covering a period to include at least the previous two calendar years which show:
 - a) The name and quantities, in gallons per month, of each inside spray coating used;
 - b) The density, in pounds per gallon, of each inside spray coating used;
 - c) The VOC fraction, by weight, of each inside spray coating used;
 - d) The VOC capture efficiency for the inside spray operation;
 - e) The destruction efficiency of the thermal oxidizer for the inside spray operation; and
 - f) The total VOC emissions for the month and the cumulative total for the previous 12-months total from the inside spray operation based on the above data.
2. Each sheet of the above records shall include the following statement: "I (we) have entered the numbers on the record, and do hereby attest by my (our) signature(s) below that this record contains the actual correct and accurate information it portrays." This statement shall then be signed by all personnel involved with recording the numbers. These records shall be accessible to the Missouri Air Pollution Program Enforcement personnel.

Reporting:

1. The permittee shall report to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after the permittee determined that the emission unit(s) exceeded the emission limitation listed above.
2. Reports of any deviations from monitoring, recordkeeping and reporting requirements of this permit condition using the semi-annual monitoring report and annual compliance certification to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as required by 10 CSR 10-6.065(6)(C)1.C.(III)

Permit Condition EU0143-003

10 CSR 10-6.060

Construction Permits Required

Construction Permit No.: 0893-028

Emission Limitation:

Emissions of volatile organic compounds from Line 4 shall not exceed 68.4 tons in any consecutive 12-month period.

Note: This emission limit applies to Line 4 which includes two printer/varnisher ovens (EU0023 & EU0024), inside spray bake oven (EU0033), inside spray machine (EU0143), two varnishers (EU0153 & EU0154) and two printers (EU00163 & EU0164).

Monitoring/Recordkeeping

The permittee shall record the monthly and 12-month rolling totals of VOC (in tons) emitted from Line 4 (see Attachment F). This shall be done by mathematically manipulating manufacturers' formulation data for coatings, solvents and any other VOC-containing liquids used in the operations at this Line as well as monthly and 12-month rolling total usage rate figures for these various VOC-containing liquids. The monthly and 12-month rolling total VOC emission rates shall be recorded along with the calculations that determine these emission rates. All parameters used in determining the VOC emissions, such as gallons or pounds used, density, pounds of VOC per gallon, percent VOC by weight, etc. shall be distinctly noted in the same records. These records and updated MSDSs (Material Safety and Data Sheets) for all VOC containing liquids shall be kept on hand at all times.

Reporting:

1. The permittee shall report to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after the permittee determined that the emission unit(s) exceeded the emission limitation listed above.
2. Reports of any deviations from monitoring, recordkeeping and reporting requirements of this permit condition using the semi-annual monitoring report and annual compliance certification to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as required by 10 CSR 10-6.065(6)(C)1.C.(III)

**EU0150 through EU0154
Varnishers**

EU ID	EIQ Reference # (Year)	General Description	Manufacturer/ Model #
EU0150	P006 (2004)	Line 1 Varnisher (installed 1979).	Rutherford/FECO
EU0151	P006 (2004)	Line 2 Varnisher (installed 1979).	Rutherford/FECO
EU0152	P006 (2004)	Line 3 Varnisher (installed 1989)	Rutherford/FECO
EU0153 & EU0154	P006 (2004)	Two Line 4 Varnishers (installed 1986)	Rutherford/FECO

Permit Condition EU0150-001 through EU0154-001

10 CSR 10-5.330

Control of Emission From Industrial Surface Coating Operations

Emission Limitation:

The permittee shall not emit to the atmosphere any VOC from each two-piece can varnish coating operation in excess of 4.0 pounds per gallon of coating (minus water and non-VOC organic compounds).

Monitoring:

The permittee shall use one of the following methods for determining the daily volume-weighted average pounds of VOC emitted per gallon of coating (minus water and non-VOC organic compounds):

1. Application of compliant coatings with records sufficient to demonstrate that the VOC content of each coating applied is less than 4.0 pounds per gallon of coating (minus water and non-VOC organic compounds). Or
2. Calculate the daily volume-weighted average (DAVG_{VW}) of all coatings used as delivered to the coating applicator(s) using the following formula found at 10 CSR 10-5.330(5)(B), only if any non-compliant coating(s) is applied:

$$DAVG_{VW} = \frac{\sum_{i=1}^n (A_i \times B_i)}{C}$$

Where:

A = daily gallons each coating used (minus water and exempt solvents)

B = lbs. VOC/gal. coating (minus water and exempt solvents)

C = total daily gallon coatings used (minus water and exempt solvents)

n = number of all coatings used

- a) The permittee shall determine on a daily basis the volume of coatings consumed, as delivered to the coating applicator(s).
- b) The permittee shall determine the composition of the coatings by formulation data supplied by the manufacturer of the coating or from data determined by an analysis of each coating, as received, by EPA Reference Method 24. MDNR may require the owner or operator who uses formulation data supplied by the manufacturer of the coating to determine data used in the calculation of the VOC content of coatings by EPA Reference Method 24 or an equivalent or alternative method.

Recordkeeping:

1. The permittee who uses compliance coatings as required by Monitoring 1 of this permit condition to meet the applicable emission limitations shall maintain a record of the VOC content, in lbs per gallon (Material Safety Data Sheets, etc.), of all coatings used in this surface coating operation.

2. The permittee who uses daily volume-weighted average as required by Monitoring 2 of this permit condition to comply with the applicable emission limitation shall maintain the following records:
 - a) The owner or operator of a coating line shall keep records detailing specific VOC sources, as necessary to determine compliance (see Attachment D-1 and D-2). These may include:
 - (i) The type and the quantity of coatings used daily;
 - (ii) The coatings manufacturer's formulation data for each coating;
 - (iii) The type and quantity of solvents for coating, thinning, purging and equipment cleaning used daily;
 - (iv) All test results to determine capture and control efficiencies, transfer efficiencies and coating makeup;
 - (v) The type and quantity of waste solvents reclaimed or discarded daily;
 - (vi) The quantity of pieces of materials coated daily; and
 - (vii) Any additional information pertinent to determine compliance.
2. Records such as daily production rates may be substituted for actual daily coating use measurement provided the owner submits a demonstration approvable by the director that such records are adequate for the purpose of this rule. This will apply until EPA issues national daily emissions recordkeeping protocols for specific industrial classifications.

Reporting:

The permittee shall report to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any deviation from or exceedance of any of the terms imposed by this regulation, or any malfunction which causes a deviation from or exceedance of this regulation.

Permit Condition EU0152-002 through EU0154-002

10 CSR 10-6.070

New Source Performance Regulations

40 CFR Part 60 Subpart WW

Standards of Performance for the Beverage Can Surface Coating Industry

Emission Limitation:

On or after the date on which the initial performance test required by §60.8(a) is completed, no owner or operator subject to the provisions of this subpart shall discharge or cause the discharge of VOC emissions to the atmosphere that exceed the volume-weighted calendar-month average emissions of 0.46 kilogram of VOC per litre of coating solids from each two-piece can overvarnish coating operation. [§60.492(b)]

Performance Test and Compliance Provisions:

Pursuant to §60.493 (b) the owner or operator shall use the following procedures each calendar month for each affected facility that does not use a capture system and a control device to comply with the emission limit specified under §60.492:

1. The owner or operator shall determine the VOC-content of the coatings from formulation data supplied by the manufacturer of the coating or by an analysis of each coating, as received, using Method 24. The Administrator may require the owner or operator who uses formulation data supplied by the manufacturer of the coating to determine the VOC content of coatings using Method 24 or an equivalent or alternative method. The owner or operator shall determine from company records the volume of coating and the mass of VOC-solvent added to coatings. If a common coating distribution system serves more than one affected facility or serves both affected and existing facilities, the owner or operator shall estimate the volume of coating used at each facility by using the average dry weight of coating, number of cans, and size of cans being processed by each affected and existing facility or by other procedures acceptable to the Administrator. [§60.493(b)(1)]
 - a) Calculate the volume-weighted average of the total mass of VOC per volume of coating solids used during the calendar month for each affected facility, except as provided under §60.493(b)(1)(iv). The volume-weighted average of the total mass of VOC per volume of coating solids used each calendar month will be determined by the following procedures. [§60.493(b)(1)(i)]

- (i) Calculate the mass of VOC used ($M_o + M_d$) during the calendar month for the affected facility by the following equation: [§60.493(b)(1)(i)(A)]

$$M_o + M_d = \sum_{i=1}^n L_{ci} D_{ci} W_{oi} + \sum_{j=1}^m L_{dj} D_{dj}$$

[$\sum L_{dj} D_{dj}$ will be 0 if no VOC solvent is added to the coatings, as received.]

Where:

M_o = the mass of VOC-solvent in coatings consumed, as received (kilograms)

M_d = the mass of VOC-solvent added to coatings (kilograms)

L_c = the volume of each coating consumed, as received (liters)

D_c = density of each coating, as received (kilograms per liter)

W_o = the proportion of VOC in each coating, as received (fraction by weight)

L_d = the volume of each VOC-solvent added to coatings (liters)

D_d = density of each VOC-solvent added to coatings (kilograms per liter)

n = the number of different coatings used during the calendar month

m = the number of different diluent VOC-solvents used during the calendar month

- (ii) Calculate the total volume of coating solids used (L_s) in the calendar month for the affected facility by the following equation: [§60.493(b)(1)(i)(B)]

$$L_s = \sum_{i=1}^n L_{ci} V_{si}$$

Where:

L_c = the volume of each coating consumed, as received (liters)

V_s = the proportion of solids in each coating, as received (fraction by volume)

n = the number of different coatings used during the calendar month

- (iii) Calculate the volume-weighted average mass of VOC per volume of solids used (G) during the calendar month for the affected facility by the following equation: [§60.493(b)(1)(i)(C)]

$$G = \frac{M_o + M_d}{L_s}$$

Where:

G = the volume-weighted average of VOC in coatings consumed in a calendar month per volume of coating solids applied (kilograms per liter of coating solids)

M_o = the mass of VOC-solvent in coatings consumed, as received (kilograms)

M_d = the mass of VOC-solvent added to coatings (kilograms)

L_s = the volume of coating solids consumed (liters)

- b) Calculate the volume-weighted average of VOC emissions discharged to the atmosphere (N) during the calendar month for the affected facility by the following equation: [§60.493(b)(1)(ii)]

$$N = G$$

Where:

G = the volume-weighted average of VOC in coatings consumed in a calendar month per volume of coating solids applied (kilograms per liter of coating solids)

N = the volume-weighted average of VOC in coatings consumed in a calendar month per volume of coating solids applied (kilograms per liter of coating solids)

- c) Where the value of the volume-weighted average mass of VOC per volume of solids discharged to the atmosphere (N) is equal to or less than the applicable emission limit specified under §60.492, the affected facility is in compliance. [§60.493(b)(1)(iii)]
- d) If each individual coating used by an affected facility has a VOC content equal to or less than the limit specified under §60.492, the affected facility is in compliance provided no VOC-solvents are added to the coating during distribution or application. [§60.493(b)(1)(iv)]

Recordkeeping/Reporting:

1. The owner or operator shall identify, record, and submit quarterly reports to the Administrator of each instance in which the volume-weighted average of the total mass of VOC per volume of coating solids is greater than 0.46 kilogram of VOC per litre of coating solids. If no such instances occur during a particular quarter, a report stating this shall be submitted to the Administrator semiannually. [§60.495(b)]
2. The owner or operator shall maintain at the source, for a period of at least two years, records of all data and calculations used to determine VOC emissions from each affected facility in the initial and monthly performance tests. [§60.495(d)]

Permit Condition EU0153-003 through EU0154-003

10 CSR 10-6.060

Construction Permits Required

Construction Permit No.: 0893-028

Emission Limitation:

Emissions of volatile organic compounds from Line 4 shall not exceed 68.4 tons in any consecutive 12-month period.

Note: This emission limit applies to Line 4 which includes two printer/varnisher ovens (EU0023 & EU0024), inside spray bake oven (EU0033), inside spray machine (EU0143), two varnishers (EU0153 & EU0154) and two printers (EU00163 & EU0164).

Monitoring/Recordkeeping

The permittee shall record the monthly and 12-month rolling totals of VOC (in tons) emitted from Line 4 (see Attachment F). This shall be done by mathematically manipulating manufacturers' formulation data for coatings, solvents and any other VOC-containing liquids used in the operations at this Line as well as monthly and 12-month rolling total usage rate figures for these various VOC-containing liquids. The monthly and 12-month rolling total VOC emission rates shall be recorded along with the calculations that determine these emission rates. All parameters used in determining the VOC emissions, such as gallons or pounds used, density, pounds of VOC per gallon, percent VOC by weight, etc. shall be distinctly noted in the same records. These records and updated MSDSs (Material Safety and Data Sheets) for all VOC containing liquids shall be kept on hand at all times.

Reporting:

1. The permittee shall report to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after the permittee determined that the emission unit(s) exceeded the emission limitation listed above.
2. Reports of any deviations from monitoring, recordkeeping and reporting requirements of this permit condition using the semi-annual monitoring report and annual compliance certification to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as required by 10 CSR 10-6.065(6)(C)1.C.(III).

EU0160 through EU0164 Printers			
EU ID	EIQ Reference # (Year)	General Description	Manufacturer/ Model #
EU0160	P005 (2004)	Line 1 Printer – Flexographic printing on cans, decorative coating, installed 1979	Rutherford/FECO
EU0161	P005 (2004)	Line 2 Printer - Flexographic printing on cans, decorative coating, installed 1979	Rutherford/FECO
EU0162	P005 (2004)	Line 3 Printer - Flexographic printing on cans, decorative coating, installed 1979	Rutherford/FECO
EU0163 & EU0164	P005 (2004)	Two Line 4 Printers - Flexographic printing on cans, decorative coating, installed 1986	Rutherford/FECO

Permit Condition EU0160-001 through EU0164-001

10 CSR 10-5.330

Control of Emission From Industrial Surface Coating Operations

Emission Limitation:

The permittee shall not emit to the atmosphere any VOC from each two-piece can decorative printing operation in excess of 4.0 pounds per gallon of coating (minus water and non-VOC organic compounds).

Monitoring:

The permittee shall use one of the following methods for determining the daily volume-weighted average pounds of VOC emitted per gallon of coating (minus water and non-VOC organic compounds):

1. Application of compliant coatings with records sufficient to demonstrate that the VOC content of each coating applied is less than 4.0 pounds per gallon of coating (minus water and non-VOC organic compounds). Or
2. Calculate the daily volume-weighted average ($DAVG_{vw}$) of all coatings used as delivered to the coating applicator(s) using the following formula found at 10 CSR 10-5.330(5)(B), only if any non-compliant coating(s) is applied:

$$DAVG_{vw} = \frac{\sum_{i=1}^n (A_i \times B_i)}{C}$$

Where:

A = daily gallons each coating used (minus water and exempt solvents)

B = lbs. VOC/gal. coating (minus water and exempt solvents)

C = total daily gallon coatings used (minus water and exempt solvents)

n = number of all coatings used

- a) The permittee shall determine on a daily basis the volume of coatings consumed, as delivered to the coating applicator(s).
- b) The permittee shall determine the composition of the coatings by formulation data supplied by the manufacturer of the coating or from data determined by an analysis of each coating, as received, by EPA Reference Method 24. MDNR may require the owner or operator who uses formulation data supplied by the manufacturer of the coating to determine data used in the calculation of the VOC content of coatings by EPA Reference Method 24 or an equivalent or alternative method.

Recordkeeping:

1. The permittee who uses compliance coatings as required by Monitoring 1 of this permit condition to meet the applicable emission limitations shall maintain a record of the VOC content, in lbs per gallon (Material Safety Data Sheets, etc.), of all coatings used in this surface coating operation.
2. The permittee who uses daily volume-weighted average as required by Monitoring 2 of this permit condition to comply with the applicable emission limitation shall maintain the following records:
 - a) The owner or operator of a coating line shall keep records detailing specific VOC sources, as necessary to determine compliance (see Attachment D-1 and D-2). These may include:
 - (i) The type and the quantity of coatings used daily;
 - (ii) The coatings manufacturer's formulation data for each coating;
 - (iii) The type and quantity of solvents for coating, thinning, purging and equipment cleaning used daily;
 - (iv) All test results to determine capture and control efficiencies, transfer efficiencies and coating makeup;
 - (v) The type and quantity of waste solvents reclaimed or discarded daily;
 - (vi) The quantity of pieces of materials coated daily; and
 - (vii) Any additional information pertinent to determine compliance.
 - b) Records such as daily production rates may be substituted for actual daily coating use measurement provided the owner submits a demonstration approvable by the director that such records are adequate for the purpose of this rule. This will apply until EPA issues national daily emissions recordkeeping protocols for specific industrial classifications.

Reporting:

The permittee shall report to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any deviation from or exceedance of any of the terms imposed by this regulation, or any malfunction which causes a deviation from or exceedance of this regulation.

Permit Condition EU0163-002 through EU0164-002

10 CSR 10-6.060

Construction Permits Required

Construction Permit No.: 0893-028

Emission Limitation:

Emissions of volatile organic compounds from Line 4 shall not exceed 68.4 tons in any consecutive 12-month period.

Note: This emission limit applies to Line 4 which includes two printer/varnisher ovens (EU0023 & EU0024), inside spray bake oven (EU0033), inside spray machine (EU0143), two varnishers (EU0153 & EU0154) and two printers (EU00163 & EU0164).

Monitoring/Recordkeeping

The permittee shall record the monthly and 12-month rolling totals of VOC (in tons) emitted from Line 4 (see Attachment F). This shall be done by mathematically manipulating manufacturers' formulation data for coatings, solvents and any other VOC-containing liquids used in the operations at this Line as well as monthly and 12-month rolling total usage rate figures for these various VOC-containing liquids. The monthly and 12-month rolling total VOC emission rates shall be recorded along with the calculations that determine these emission rates. All parameters used in determining the VOC emissions, such as gallons or pounds used, density, pounds of VOC per gallon, percent VOC by weight, etc. shall be distinctly noted in the same records. These records and updated MSDSs (Material Safety and Data Sheets) for all VOC containing liquids shall be kept on hand at all times.

Reporting:

1. The permittee shall report to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after the permittee determined that the emission unit(s) exceeded the emission limitation listed above.
2. Reports of any deviations from monitoring, recordkeeping and reporting requirements of this permit condition using the semi-annual monitoring report and annual compliance certification to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as required by 10 CSR 10-6.065(6)(C)1.C.(III)

IV. Core Permit Requirements

The installation shall comply with each of the following requirements. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect as of the date that this permit is issued.

10 CSR 10-6.050, Start-up, Shutdown and Malfunction Conditions

1. In the event of a malfunction, which results in excess emissions that exceed one hour, the permittee shall submit to the director within two business days in writing the following information:
 - a) Name and location of installation;
 - b) Name and telephone number of person responsible for the installation;
 - c) Name of the person who first discovered the malfunction and precise time and date that the malfunction was discovered.
 - d) Identity of the equipment causing the excess emissions;
 - e) Time and duration of the period of excess emissions;
 - f) Cause of the excess emissions;
 - g) Air pollutants involved;
 - h) Best estimate of the magnitude of the excess emissions expressed in the units of the applicable requirement and the operating data and calculations used in estimating the magnitude;
 - i) Measures taken to mitigate the extent and duration of the excess emissions; and
 - j) Measures taken to remedy the situation that caused the excess emissions and the measures taken or planned to prevent the recurrence of these situations.
2. The permittee shall submit the paragraph (a.) information list to the director in writing at least ten days prior to any maintenance, start-up or shutdown, which is expected to cause an excessive release of emissions that exceed one hour. If notice of the event cannot be given ten days prior to the planned occurrence, it shall be given as soon as practicable prior to the release. If an unplanned excess release of emissions exceeding one hour occurs during maintenance, start-up or shutdown, the director shall be notified verbally as soon as practical during normal working hours and no later than the close of business of the following working day. A written notice shall follow within ten working days.
3. Upon receipt of a notice of excess emissions issued by an agency holding a certificate of authority under section 643.140, RSMo, the permittee may provide information showing that the excess emissions were the consequence of a malfunction, start-up or shutdown. The information, at a minimum, should be the paragraph (a.) list and shall be submitted not later than 15 days after receipt of the notice of excess emissions. Based upon information submitted by the permittee or any other pertinent information available, the director or the commission shall make a determination whether the excess emissions constitute a malfunction, start-up or shutdown and whether the nature, extent and duration of the excess emissions warrant enforcement action under section 643.080 or 643.151, RSMo.
4. Nothing in this rule shall be construed to limit the authority of the director or commission to take appropriate action, under sections 643.080, 643.090 and 643.151, RSMo to enforce the provisions of the Air Conservation Law and the corresponding rule.
5. Compliance with this rule does not automatically absolve the permittee of liability for the excess emissions reported.

10 CSR 10-6.060, Construction Permits Required

The permittee shall not commence construction, modification, or major modification of any installation subject to this rule, begin operation after that construction, modification, or major modification, or begin operation of any installation which has been shut down longer than five years without first obtaining a permit from the permitting authority.

10 CSR 10-6.065, Operating Permits

The permittee shall file a complete application for renewal of this operating permit at least six months before the date of permit expiration. In no event shall this time be greater than eighteen months. [10 CSR 10-6.065(6)(B)1.A(V)] The permittee shall retain the most current operating permit issued to this installation on-site. [10 CSR 10-6.065(6)(C)1.C(II)] The permittee shall immediately make such permit available to any Missouri Department of Natural Resources personnel upon request. [10 CSR 10-6.065(6)(C)3.B]

10 CSR 10-6.110, Submission of Emission Data, Emission Fees and Process Information

- 1) The permittee shall complete and submit an Emission Inventory Questionnaire (EIQ) in accordance with the requirements outlined in this rule.
- 2) The permittee shall pay an annual emission fee per ton of regulated air pollutant emitted according to the schedule in the rule. This fee is an emission fee assessed under authority of RSMo. 643.079 to satisfy the requirements of the Federal Clean Air Act, Title V.
- 3) The fees shall be due April 1 each year for emissions produced during the previous calendar year. The fees shall be payable to the Department of Natural Resources and shall be accompanied by the Emissions Inventory Questionnaire (EIQ) form or equivalent approved by the director.

10 CSR 10-6.130, Controlling Emissions During Episodes of High Air Pollution Potential

This rule specifies the conditions that establish an air pollution alert (yellow/orange/red/purple), or emergency (maroon) and the associated procedures and emission reduction objectives for dealing with each. The permittee shall submit an appropriate emergency plan if required by the Director.

10 CSR 10-6.150, Circumvention

The permittee shall not cause or permit the installation or use of any device or any other means which, without resulting in reduction in the total amount of air contaminant emitted, conceals or dilutes an emission or air contaminant which violates a rule of the Missouri Air Conservation Commission.

10 CSR 10-6.170, Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin

- 1) The permittee shall not cause or allow to occur any handling, transporting or storing of any material; construction, repair, cleaning or demolition of a building or its appurtenances; construction or use of a road, driveway or open area; or operation of a commercial or industrial installation without applying reasonable measures as may be required to prevent, or in a manner which allows or may allow, fugitive particulate matter emissions to go beyond the premises of origin in quantities that the particulate matter may be found on surfaces beyond the property line of origin. The nature or origin of the particulate matter shall be determined to a reasonable degree of certainty by a technique proven to be accurate and approved by the director.
- 2) The permittee shall not cause nor allow to occur any fugitive particulate matter emissions to remain visible in the ambient air beyond the property line of origin.

- 3) Should it be determined that noncompliance has occurred, the director may require reasonable control measures as may be necessary. These measures may include, but are not limited to, the following:
 - a) Revision of procedures involving construction, repair, cleaning and demolition of buildings and their appurtenances that produce particulate matter emissions;
 - b) Paving or frequent cleaning of roads, driveways and parking lots;
 - c) Application of dust-free surfaces;
 - d) Application of water; and
 - e) Planting and maintenance of vegetative ground cover.

10 CSR 10-6.180, Measurement of Emissions of Air Contaminants

1. The director may require any person responsible for the source of emission of air contaminants to make or have made tests to determine the quantity or nature, or both, of emission of air contaminants from the source. The director may specify testing methods to be used in accordance with good professional practice. The director may observe the testing. All tests shall be performed by qualified personnel.
2. The director may conduct tests of emissions of air contaminants from any source. Upon request of the director, the person responsible for the source to be tested shall provide necessary ports in stacks or ducts and other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices as may be necessary for proper determination of the emission of air contaminants.
3. The director shall be given a copy of the test results in writing and signed by the person responsible for the tests.

10 CSR 10-5.040, Use of Fuel in Hand-Fired Equipment Prohibited

It shall be unlawful to operate any hand-fired fuel-burning equipment in the St. Louis, Missouri metropolitan area. This regulation shall apply to all fuel-burning equipment including, but not limited to, furnaces, heating and cooking stoves and hot water furnaces. It shall not apply to wood-burning fireplaces and wood-burning stoves in dwellings, or to fires used for recreational purpose, or to fires used solely for the preparation of food by barbecuing. Hand-fired fuel-burning equipment is any stove, furnace, or other fuel-burning device in which fuel is manually introduced directly into the combustion chamber.

10 CSR 10-5.060, Refuse Not to be Burned in Fuel Burning Installations (Contained in State Implementation Plan)

No person shall burn or cause or permit the burning of refuse in any installation which is designed for the primary purpose of burning fuel.

10 CSR 10- 5.070, Open Burning Restrictions

1. The permittee shall not conduct, cause, permit or allow a salvage operation, the disposal of trade wastes or burning of refuse by open burning.
2. Exception - Open burning of trade waste or vegetation may be permitted only when it can be shown that open burning is the only feasible method of disposal or an emergency exists which requires open burning.
3. Any person intending to engage in open burning shall file a request to do so with the director. The request shall include the following:
 - a) The name, address and telephone number of the person submitting the application; The type of business or activity involved; A description of the proposed equipment and operating practices,

the type, quantity and composition of trade wastes and expected composition and amount of air contaminants to be released to the atmosphere where known;

- b) The schedule of burning operations;
 - c) The exact location where open burning will be used to dispose of the trade wastes;
 - d) Reasons why no method other than open burning is feasible; and
 - e) Evidence that the proposed open burning has been approved by the fire control authority which has jurisdiction.
4. Upon approval of the open burning permit application by the director, the person may proceed with the operation under the terms of the open burning permit. Be aware that such approval shall not exempt Metal Container Corporation from the provisions of any other law, ordinance or regulation.
5. The permittee shall maintain files with letters from the director approving the open burning operation and previous DNR inspection reports.

10 CSR 10-5.160, Control of Odors in the Ambient Air

No person shall emit odorous matter as to cause an objectionable odor on or adjacent to:

- 1) Residential, recreational, institutional, retail sales, hotel or educational premises.
- 2) Industrial premises when air containing odorous matter is diluted with 20 or more volumes of odor-free air; or
- 3) Premises other than those in paragraphs (1)A.1. and (2) of the rule when air containing odorous matter is diluted with four or more volumes of odor-free air.

The previously mentioned requirement shall apply only to objectionable odors. An odor will be deemed objectionable when 30% or more of a sample of the people exposed to it believe it to be objectionable in usual places of occupancy; the sample size to be at least 20 people or 75% of those exposed if fewer than 20 people are exposed.

This requirement is not federally enforceable.

10 CSR 10-5.240, Additional Air Quality Control Measures May be Required When Sources Are Clustered in a Small Land Area

The Air Conservation Commission may prescribe more restrictive air quality control requirements that are more restrictive and more extensive than provided in regulations of general application for:

- 1) Areas in which there are one or more existing sources and/or proposed new sources of particulate matter in any circular area with a diameter of two miles (including sources outside metropolitan area) from which the sum of particulate emissions allowed from these sources by regulations of general application are or would be greater than 2000 tons per year or 500 pounds per hour.
- 2) Areas in which there are one or more existing sources and/or proposed new sources of sulfur dioxide in any circular area with a diameter of two miles from which the sum of sulfur dioxide emissions from these sources allowed by regulations of general application are or would be greater than 1000 tons for any consecutive three months or 1000 pounds per hour.

10 CSR 10-6.100, Alternate Emission Limits

Proposals for alternate emission limitations shall be submitted on Alternate Emission Limits Permit forms provided by the department. An installation owner or operator must obtain an Alternate Emission Limits Permit in accordance with 10 CSR 10-6.100 before alternate emission limits may become effective.

10 CSR 10-6.080, Emission Standards for Hazardous Air Pollutants

40 CFR Part 61 Subpart M, National Emission Standard for Asbestos

1. The permittee shall follow the procedures and requirements of 40 CFR Part 61, Subpart M for any activities occurring at this installation which would be subject to provisions for 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos.
2. The permittee shall conduct monitoring to demonstrate compliance with registration, certification, notification, and Abatement Procedures and Practices standards as specified in 40 CFR Part 61, Subpart M.

10 CSR 10-6.250, Asbestos Abatement Projects – Certification, Accreditation, and Business

Exemption Requirements

The permittee shall conduct all asbestos abatement projects within the procedures established for certification and accreditation by 10 CSR 10-6.250. This rule requires individuals who work in asbestos abatement projects to be certified by the Missouri Department of Natural Resources Air Pollution Control Program. This rule requires training providers who offer training for asbestos abatement occupations to be accredited by the Missouri Department of Natural Resources Air Pollution Control Program. This rule requires persons who hold exemption status from certain requirements of this rule to allow the department to monitor training provided to employees. Each individual who works in asbestos abatement projects must first obtain certification for the appropriate occupation from the department. Each person who offers training for asbestos abatement occupations must first obtain accreditation from the department. Certain business entities that meet the requirements for state-approved exemption status must allow the department to monitor training classes provided to employees who perform asbestos abatement.

Title VI – 40 CFR Part 82, Protection of Stratospheric Ozone

- 1) The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
 - a) All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to §82.106.
 - b) The placement of the required warning statement must comply with the requirements pursuant to §82.108.
 - c) The form of the label bearing the required warning statement must comply with the requirements pursuant to §82.110.
 - d) No person may modify, remove, or interfere with the required warning statement except as described in §82.112.
- 2) The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR part 82, Subpart F, except as provided for motor vehicle air conditioners (MVACs) in Subpart B:
 - a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to §82.156.
 - b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to §82.158.
 - c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to §82.161.

- d) Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to §82.166. ("MVAC-like" appliance as defined at §82.152).
 - e) Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to §82.156.
 - f) Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to §82.166.
- 3) If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.
- 4) If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant.

The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *Federal Only - 40 CFR part 82*

10 CSR 10-6.280, Compliance Monitoring Usage

- 1) The permittee is not prohibited from using the following in addition to any specified compliance methods for the purpose of submission of compliance certificates:
- a) Monitoring methods outlined in 40 CFR Part 64;
 - b) Monitoring method(s) approved for the permittee pursuant to 10 CSR 10-6.065, "Operating Permits", and incorporated into an operating permit; and
 - c) Any other monitoring methods approved by the director.
- 2) Any credible evidence may be used for the purpose of establishing whether a permittee has violated or is in violation of any such plan or other applicable requirement. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred by a permittee:
- a) Monitoring methods outlined in 40 CFR Part 64;
 - b) A monitoring method approved for the permittee pursuant to 10 CSR 10-6.065, "Operating Permits", and incorporated into an operating permit; and
 - c) Compliance test methods specified in the rule cited as the authority for the emission limitations.
- 3) The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:
- a) Applicable monitoring or testing methods, cited in:
 - i) 10 CSR 10-6.030, "Sampling Methods for Air Pollution Sources";
 - ii) 10 CSR 10-6.040, "Reference Methods";
 - iii) 10 CSR 10-6.070, "New Source Performance Standards";
 - iv) 10 CSR 10-6.080, "Emission Standards for Hazardous Air Pollutants"; or
 - b) Other testing, monitoring, or information gathering methods, if approved by the director, that produce information comparable to that produced by any method listed above.

V. General Permit Requirements

The installation shall comply with each of the following requirements. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect as of the date that this permit is issued,

10 CSR 10-6.065(6)(C)1.B Permit Duration

This permit is issued for a term of five years, commencing on the date of issuance. This permit will expire at the end of this period unless renewed.

10 CSR 10-6.065(6)(C)1.C General Recordkeeping and Reporting Requirements

1) Recordkeeping

- a) All required monitoring data and support information shall be retained for a period of at least five years from the date of the monitoring sample, measurement, report or application.
- b) Copies of all current operating and construction permits issued to this installation shall be kept on-site for as long as the permits are in effect. Copies of these permits shall be made immediately available to any Missouri Department of Natural Resources' personnel upon request.

2) Reporting

- a) All reports shall be submitted to the Air Pollution Control Program, Enforcement Section, P. O. Box 176, Jefferson City, MO 65102.
- b) The permittee shall submit a report of all required monitoring by:
 - i) October 1st for monitoring which covers the January through June time period, and
 - ii) April 1st for monitoring which covers the July through December time period.
 - iii) Exception. Monitoring requirements which require reporting more frequently than semi annually shall report no later than 30 days after the end of the calendar quarter in which the measurements were taken.
- c) Each report shall identify any deviations from emission limitations, monitoring, recordkeeping, reporting, or any other requirements of the permit, this includes deviations or Part 64 exceedances.
- d) Submit supplemental reports as required or as needed. Supplemental reports are required no later than ten days after any exceedance of any applicable rule, regulation or other restriction. All reports of deviations shall identify the cause or probable cause of the deviations and any corrective actions or preventative measures taken.
 - i) Notice of any deviation resulting from an emergency (or upset) condition as defined in paragraph (6)(C)7.A of 10 CSR 10-6.065 (Emergency Provisions) shall be submitted to the permitting authority either verbally or in writing within two working days after the date on which the emission limitation is exceeded due to the emergency, if the permittee wishes to assert an affirmative defense. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that indicate an emergency occurred and the permittee can identify the cause(s) of the emergency. The permitted installation must show that it was operated properly at the time and that during the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or requirements in the permit. The notice must contain a description of the emergency, the steps taken to mitigate emissions, and the corrective actions taken.
 - ii) Any deviation that poses an imminent and substantial danger to public health, safety or the environment shall be reported as soon as practicable.

- iii) Any other deviations identified in the permit as requiring more frequent reporting than the permittee's semiannual report shall be reported on the schedule specified in this permit, and no later than ten days after any exceedance of any applicable rule, regulation, or other restriction.
- e) Every report submitted shall be certified by the responsible official, except that, if a report of a deviation must be submitted within ten days after the deviation, the report may be submitted without a certification if the report is resubmitted with an appropriate certification within ten days after that, together with any corrected or supplemental information required concerning the deviation.
- f) The permittee may request confidential treatment of information submitted in any report of deviation.

10 CSR 10-6.065(6)(C)1.D Risk Management Plan Under Section 112(r)

The permittee shall comply with the requirements of 40 CFR Part 68, Accidental Release Prevention Requirements. If the permittee has more than a threshold quantity of a regulated substance in process, as determined by 40 CFR Section 68.115, the permittee shall submit a Risk Management Plan in accordance with 40 CFR Part 68 no later than the latest of the following dates:

- 1) June 21, 1999;
- 2) Three years after the date on which a regulated substance is first listed under 40 CFR Section 68.130; or
- 3) The date on which a regulated substance is first present above a threshold quantity in a process.

10 CSR 10-6.065(6)(C)1.F Severability Clause

In the event of a successful challenge to any part of this permit, all uncontested permit conditions shall continue to be in force. All terms and conditions of this permit remain in effect pending any administrative or judicial challenge to any portion of the permit. If any provision of this permit is invalidated, the permittee shall comply with all other provisions of the permit.

10 CSR 10-6.065(6)(C)1.G General Requirements

- 1) The permittee must comply with all of the terms and conditions of this permit. Any noncompliance with a permit condition constitutes a violation and is grounds for enforcement action, permit termination, permit revocation and re-issuance, permit modification or denial of a permit renewal application.
- 2) The permittee may not use as a defense in an enforcement action that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit
- 3) The permit may be modified, revoked, reopened, reissued or terminated for cause. Except as provided for minor permit modifications, the filing of an application or request for a permit modification, revocation and reissuance, or termination, or the filing of a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
- 4) This permit does not convey any property rights of any sort, nor grant any exclusive privilege.
- 5) The permittee shall furnish to the Air Pollution Control Program, upon receipt of a written request and within a reasonable time, any information that the Air Pollution Control Program reasonably may require to determine whether cause exists for modifying, reopening, reissuing or revoking the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the Air Pollution Control Program copies of records required to be kept by the permittee. The

permittee may make a claim of confidentiality for any information or records submitted pursuant to 10 CSR 10-6.065(6)(C)1.

10 CSR 10-6.065(5)(C)1.H Incentive Programs Not Requiring Permit Revisions

No permit revision will be required for any installation changes made under any approved economic incentive, marketable permit, emissions trading, or other similar programs or processes provided for in this permit.

10 CSR 10-6.065(5)(C)1.C Reasonably Anticipated Operating Scenarios

None

10 CSR 10-6.065(6)(C)3 Compliance Requirements

- 1) Any document (including reports) required to be submitted under this permit shall contain a certification signed by the responsible official.
- 2) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized officials of the Missouri Department of Natural Resources, or their authorized agents, to perform the following (subject to the installation's right to seek confidential treatment of information submitted to, or obtained by, the Air Pollution Control Program):
 - a) Enter upon the premises where a permitted installation is located or an emissions-related activity is conducted, or where records must be kept under the conditions of this permit;
 - b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 - c) Inspect, at reasonable times and using reasonable safety practices, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and
 - d) As authorized by the Missouri Air Conservation Law, Chapter 643, RSMo or the Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the terms of this permit, and all applicable requirements as outlined in this permit.
- 3) All progress reports required under an applicable schedule of compliance shall be submitted semiannually (or more frequently if specified in the applicable requirement). These progress reports shall contain the following:
 - a) Dates for achieving the activities, milestones or compliance required in the schedule of compliance, and dates when these activities, milestones or compliance were achieved, and
 - b) An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventative or corrective measures adopted.
- 4) The permittee shall submit an annual certification that it is in compliance with all of the federally enforceable terms and conditions contained in this permit, including emissions limitations, standards, or work practices. These certifications shall be submitted annually by April 1st, unless the applicable requirement specifies more frequent submission. These certifications shall be submitted to EPA Region VII, 901 North 5th Street, Kansas City, Kansas 66101, as well as the Air Pollution Control Program, Enforcement Section, P.O. Box 176, Jefferson City, MO 65102. All deviations and Part 64 exceedances and excursions must be included in the compliance certifications. The compliance certification shall include the following:
 - a) The identification of each term or condition of the permit that is the basis of the certification;
 - b) The current compliance status, as shown by monitoring data and other information reasonably available to the installation;
 - c) Whether compliance was continuous or intermittent;

- d) The method(s) used for determining the compliance status of the installation, both currently and over the reporting period; and
- e) Such other facts as the Air Pollution Control Program will require in order to determine the compliance status of this installation.

10 CSR 10-6.065(6)(C)6 Permit Shield

- 1) Compliance with the conditions of this permit shall be deemed compliance with all applicable requirements as of the date that this permit is issued, provided that:
 - a) The application requirements are included and specifically identified in this permit, or
 - b) The permitting authority, in acting on the permit revision or permit application, determines in writing that other requirements, as specifically identified in the permit, are not applicable to the installation, and this permit expressly includes that determination or a concise summary of it.
- 2) Be aware that there are exceptions to this permit protection. The permit shield does not affect the following:
 - a) The provisions of section 303 of the Act or section 643.090, RSMo concerning emergency orders,
 - b) Liability for any violation of an applicable requirement which occurred prior to, or was existing at, the time of permit issuance,
 - c) The applicable requirements of the acid rain program,
 - d) The authority of the Environmental Protection Agency and the Air Pollution Control Program of the Missouri Department of Natural Resources to obtain information, or
 - e) Any other permit or extra-permit provisions, terms or conditions expressly excluded from the permit shield provisions.

10 CSR 10-6.065(6)(C)7 Emergency Provisions

- 1) An emergency or upset as defined in 10 CSR 10-6.065(6)(C)7.A shall constitute an affirmative defense to an enforcement action brought for noncompliance with technology-based emissions limitations. To establish an emergency- or upset-based defense, the permittee must demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence, the following:
 - a) That an emergency or upset occurred and that the permittee can identify the source of the emergency or upset,
 - b) That the installation was being operated properly,
 - c) That the permittee took all reasonable steps to minimize emissions that exceeded technology-based emissions limitations or requirements in this permit, and
 - d) That the permittee submitted notice of the emergency to the Air Pollution Control Program within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and any corrective actions taken.
- 2) Be aware that an emergency or upset shall not include noncompliance caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

10 CSR 10-6.065(6)(C)8 Operational Flexibility

An installation that has been issued a Part 70 operating permit is not required to apply for or obtain a permit revision in order to make any of the changes to the permitted installation described below if the changes are not Title I modifications, the changes do not cause emissions to exceed emissions allowable under the permit, and the changes do not result in the emission of any air contaminant not previously

emitted. The permittee shall notify the Air Pollution Control Program, Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 901 North 5th Street, Kansas City, Kansas 66101, at least seven days in advance of these changes, except as allowed for emergency or upset conditions. Emissions allowable under the permit means a federally enforceable permit term or condition determined at issuance to be required by an applicable requirement that establishes an emissions limit (including a work practice standard) or a federally enforceable emissions cap that the source has assumed to avoid an applicable requirement to which the source would otherwise be subject.

- 1) Section 502(b)(10) changes. Changes that, under section 502(b)(10) of the Act, contravene an express permit term may be made without a permit revision, except for changes that would violate applicable requirements of the Act or contravene federally enforceable monitoring (including test methods), recordkeeping, reporting or compliance requirements of the permit.
 - a) Before making a change under this provision, The permittee shall provide advance written notice to the Air Pollution Control Program, Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 901 North 5th Street, Kansas City, Kansas 66101, describing the changes to be made, the date on which the change will occur, and any changes in emission and any permit terms and conditions that are affected. The permittee shall maintain a copy of the notice with the permit, and the APCP shall place a copy with the permit in the public file. Written notice shall be provided to the EPA and the APCP as above at least seven days before the change is to be made. If less than seven days notice is provided because of a need to respond more quickly to these unanticipated conditions, the permittee shall provide notice to the EPA and the APCP as soon as possible after learning of the need to make the change.
 - b) The permit shield shall not apply to these changes.

10 CSR 10-6.065(6)(C)9 Off-Permit Changes

- 1) Except as noted below, the permittee may make any change in its permitted operations, activities or emissions that is not addressed in, constrained by or prohibited by this permit without obtaining a permit revision. Insignificant activities listed in the application, but not otherwise addressed in or prohibited by this permit, shall not be considered to be constrained by this permit for purposes of the off-permit provisions of this section. Off-permit changes shall be subject to the following requirements and restrictions:
 - a) The change must meet all applicable requirements of the Act and may not violate any existing permit term or condition; the permittee may not change a permitted installation without a permit revision if this change is subject to any requirements under Title IV of the Act or is a Title I modification;
 - b) The permittee must provide written notice of the change to the Air Pollution Control Program, Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 901 North 5th Street, Kansas City, Kansas 66101, no later than the next annual emissions report. This notice shall not be required for changes that are insignificant activities under 10 CSR 10-6.065(6)(B)3. This written notice shall describe each change, including the date, any change in emissions, pollutants emitted and any applicable requirement that would apply as a result of the change.
 - c) The permittee shall keep a record describing all changes made at the installation that result in emissions of a regulated air pollutant subject to an applicable requirement and the emissions resulting from these changes; and
 - d) The permit shield shall not apply to these changes.

10 CSR 10-6.020(2)(R)12 Responsible Official

The application utilized in the preparation of this permit was signed by David W. Peterson, Plant Manager. If this person terminates employment, or is reassigned different duties such that a different person becomes the responsible person to represent and bind the installation in environmental permitting affairs, the owner or operator of this air contaminant source shall notify the Director of the Air Pollution Control Program of the change. Said notification shall be in writing and shall be submitted within 30 days of the change. The notification shall include the name and title of the new person assigned by the source owner or operator to represent and bind the installation in environmental permitting affairs. All representations, agreement to terms and conditions and covenants made by the former responsible person that were used in the establishment of limiting permit conditions on this permit will continue to be binding on the installation until such time that a revision to this permit is obtained that would change said representations, agreements and covenants.

10 CSR 10-6.065(6)(E)6 Reopening-Permit for Cause

This permit may be reopened for cause if:

- 1) The Missouri Department of Natural Resources (MDNR) receives notice from the Environmental Protection Agency (EPA) that a petition for disapproval of a permit pursuant to 40 CFR § 70.8(d) has been granted, provided that the reopening may be stayed pending judicial review of that determination,
- 2) MDNR or EPA determines that the permit contains a material mistake or that inaccurate statements were made which resulted in establishing the emissions limitation standards or other terms of the permit,
- 3) Additional applicable requirements under the Act become applicable to the installation; however, reopening on this ground is not required if—:
 - a) The permit has a remaining term of less than three years;
 - b) The effective date of the requirement is later than the date on which the permit is due to expire;or
 - c) The additional applicable requirements are implemented in a general permit that is applicable to the installation and the installation receives authorization for coverage under that general permit,
- 4) The installation is an affected source under the acid rain program and additional requirements (including excess emissions requirements), become applicable to that source, provided that, upon approval by EPA, excess emissions offset plans shall be deemed to be incorporated into the permit; or
- 5) MDNR or EPA determines that the permit must be reopened and revised to assure compliance with applicable requirements.

10 CSR 10-6.065(6)(E)1.C Statement of Basis

This permit is accompanied by a statement setting forth the legal and factual basis for the draft permit conditions (including references to applicable statutory or regulatory provisions). This Statement of Basis, while referenced by the permit, is not an actual part of the permit.

VI. ATTACHMENTS

Attachments follow.

Attachment A-1

10 CSR 10-6.220 Compliance Demonstration
Opacity Emission Observations

This attachment or an equivalent may be used to help meet the recordkeeping requirements of Permit Condition PW001

Method 22 (Outdoor) Observation Log		
Emission Unit		
Observer	Date	
Sky Conditions		
Precipitation		
Wind Direction	Wind Speed	
Sketch process unit: Indicate the position relative to the source and sun; mark the potential emission points and/or the observing emission points.		
Observation Clock Time	Observation Period Duration (minute:second)	Accumulative Emission Time (minute:second)
Begin Observation		
End Observation		

Attachment A-2

10 CSR 10-6.220 Compliance Demonstration

This attachment or an equivalent may be used to help meet the recordkeeping requirements of Permit Condition PW001.

[illegible]

Attachment A-3

**10 CSR 10-6.220 Compliance Demonstration
Method 9 Visual Determination of Opacity**

This attachment or an equivalent may be used to help meet the recordkeeping requirements of Permit Condition PW001.

Method 9 Opacity Emissions Observation	
Company	Observer
Location	Observer Certification Date
Date	Emission Unit
Time	Control Device

Hour	Minute	Seconds				Steam Plum (Check if applicable)		Comments
		0	15	30	45	Attached	Detached	
	0							
	1							
	2							
	3							
	4							
	5							
	6							
	7							
	8							
	9							
	10							
	11							
	12							
	13							
	14							
	15							
	16							
	17							
	18							

SUMMARY OF AVERAGE OPACITY				
Set Number	Time		Opacity	
	Start	End	Sum	Average

Readings ranged from _____ to _____ % opacity.

Was the emission unit in compliance at the time of evaluation?

YES

NO

Signature of Observer

Attachment B

Construction Permit No. 0279-001 to 0279-017 – VOC Compliance Worksheet

This form or an equivalent form may be used to record the data required by this permit to demonstrate compliance with Permit Number 0279-001 to 0279-017 VOC emissions limitation (Permit Condition PW002).

Column A	Column B	Column C	Column D	Column E	Column F
Process	Material Used (name, type)	Amount of Material Used (include units)	Density (lbs/gal)	VOC Content (weight %)	VOC Emissions (tons)

INSTRUCTIONS: Choose appropriate VOC calculation method for units reported:

- (a) 1) If usage is in tons: $[\text{Column C}] \times [\text{Column E}] = [\text{Column F}]$
2) If usage is in pounds: $[\text{Column C}] \times [\text{Column E}] \times [0.0005] = [\text{Column F}]$
3) If usage is in gallons: $[\text{Column C}] \times [\text{Column D}] \times [\text{Column E}] \times [0.0005] = [\text{Column F}]$

(b) Summation of [Column F] in Tons

(c) A 12-month VOC emissions total of less than 560 tons indicates compliance.

Attachment C-1

Highest Individual HAP Emission

This form is an example of a form which may be used to record data required by this permit. In order for Metal Container Corporation to demonstrate compliance that it is not subject to the requirements of 40 CFR Part 63, Subpart KKKK, it must demonstrate that the annual emissions of any one individual hazardous air pollutant will not exceed 10 tons in any consecutive 12-month period.

12 Month Rolling Average Recordkeeping Report

Highest Individual HAP Emission by Emission Unit (tons)

Emission Unit	Month												12 Month Rolling Average
	1	2	3	4	5	6	7	8	9	10	11	12	
EU0010													
EU0020 – EU0024													
EU0030 – EU0034													
EU0040													
EU0120 – EU0122													
EU0130 – EU0132													
EU0140 – EU0144													
EU0150 – EU0154													
EU0160 – EU0164													
Other *													
Total													

* Other:- includes HAP emitting sources listed as emission units without limitation

Attachment C-2

Total HAP Emission

This form is an example of a form which may be used to record data required by this permit. In order for Metal Container Corporation to demonstrate compliance that it is not subject to the requirements of 40 CFR Part 63, Subpart KKKK, it must demonstrate that the annual emissions of any all hazardous air pollutants combined will not exceed 25 tons in any consecutive 12-month period.

12 Month Rolling Average Recordkeeping Report
Highest Individual HAP Emission by Emission Unit (tons)

Emission Unit	Month												12 Month Rolling Average
	1	2	3	4	5	6	7	8	9	10	11	12	
EU0010													
EU0020 – EU0024													
EU0030 – EU0034													
EU0040													
EU0120 – EU0122													
EU0130 – EU0132													
EU0140 – EU0144													
EU0150 – EU0154													
EU0160 – EU0164													
Other *													
Total													

* Other:- includes HAP emitting sources listed as emission units without limitation

Attachment D-1

10 CSR 10-5.330, *Control of Emissions From Industrial Surface Coating Operations*
Compliance Demonstration - Sample Record Form

Daily Record of Substances Used for Coating, Thinning, Purging, and Equipment Cleaning Record

[illegible]

Attachment D-2

10 CSR 10-5.330, *Control of Emissions From Industrial Surface Coating Operations*
Compliance Demonstration - Sample Record Form

Daily Calculation of Compliance with Emission Limit

[illegible]

Notes:

(1) $-\text{DAVG}_{\text{vw}}$ = Daily Volume-Weighted Average (lbs/gal)

Instructions:

- (a) Column F = [Column D] x [Column E]
Calculate lbs of VOC per gallon of coating ingredient in Column F by multiplying ingredient's density (Column D) by VOC's content in the ingredient (Column E).
- (b) Column G = [Column C] x [Column F]
Calculate pounds of VOC per ingredient per day in Column G by multiplying gallons of ingredient used daily (Column C) times lbs of VOC per gallon of ingredient (Column F)
- (c) Calculate Daily Volume-Weighted Average - (lbs/gal) in Column H as the daily sum of gallons of VOC (Column G) divided by the daily sum of gallons of all coating ingredients used.
- (d) Calculated value of $DAVG_{vw}$ if less than the VOC per gallon of coating limit indicates compliance.

Attachment E

This attachment may be used to help meet the recordkeeping requirements of Permit Conditions: EU0070-001 through EU0073-001 and EU00110-001 through EU0113-001.

Allowable Hourly Emission Rate

Maximum Allowable PM Emissions = $E \text{ (lb/hr)} = 4.1(P)^{0.67}$ if $P \leq 30 \text{ tons/hr}$
= $E \text{ (lb/hr)} = 55(P)^{0.11} - 40$ if $P > 30 \text{ tons/hr}$

P = Process weight rate (tons/hr)

E = Allowable emission rate limit (lb/hr)

Emissions from these units are exhausted through cyclones.

Emission Unit	Maximum Hourly Design Rate (lbs/hr)	PM Emission Factor (lbs/lb)	Emission Factor Reference	Potential PM Emission Rate ¹	Allowable PM Emission Rate
EU0070 –EU0073	11,800 lbs/hr (total for 4 cuppers)	5E-04 lbs/lb	Mass Balance	1.48 lbs/hr (for each unit)	5.32 lbs/hr (for each unit)
EU0110-EU0113	4.97 tons/hr (total for 4 wet can elevators)	0.44 lbs/ton	Mass Balance	0.55 lbs/hr (for each unit)	4.72 lbs/hr (for each unit)

¹ Uncontrolled Potential PM Emission Rate = MHDR(lbs/hr) × Emission Factor(lbs/lb)

Attachment F

Construction Permit No. 0279-001 to 0279-017 – VOC Compliance Worksheet

This form or an equivalent form may be used to record the data required by this permit to demonstrate compliance with Permit Number 0893-028 VOC emissions limitation (Permit Condition EU0023-003 through EU0024-003, EU0033-004, EU0143-003, EU0153-003 through EU0154-003 and EU0163-002 through EU0164-002).

[illegible]

INSTRUCTIONS: Choose appropriate VOC calculation method for units reported:

- (a) 1) If usage is in tons: [Column C] x [Column E] = [Column F]
 2) If usage is in pounds: [Column C] x [Column E] x [0.0005] = [Column F]
 3) If usage is in gallons: [Column C] x [Column D] x [Column E] x [0.0005] = [Column F]
 (b) Summation of [Column F] in Tons
 (c) A 12-month VOC emissions total of less than 68.4 tons indicates compliance.

STATEMENT OF BASIS

Permit Reference Documents

These documents were relied upon in the preparation of the operating permit. Because they are not incorporated by reference, they are not an official part of the operating permit.

- 1) Part 70 Operating Permit Renewal Application, received May 4, 2004;
- 2) 2004 Emissions Inventory Questionnaire, received April 1, 2005;
- 3) U.S. EPA document AP-42, *Compilation of Air Pollutant Emission Factors*; Volume I, Stationary Point and Area Sources, Fifth Edition;
- 4) Plant-wide HAPs limit request letter dated December 19, 2005, received December 22, 2005;
- 5) Construction Permit 0486-001;
- 6) Construction Permit 0589-001A;
- 7) Construction Permit 1291-001;
- 8) Construction Permit 0494-010; and
- 9) Construction Permit 0495-001;

Applicable Requirements Included in the Operating Permit but Not in the Application or Previous Operating Permits

In the operating permit application, the installation indicated they were not subject to the following regulation(s). However, in the review of the application, the agency has determined that the installation is subject to the following regulation(s) for the reasons stated.

None

Other Air Regulations Determined Not to Apply to the Operating Permit

The Air Pollution Control Program (APCP) has determined the following requirements to not be applicable to this installation at this time for the reasons stated.

10 CSR 10-5.030, *Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating.*

The following indirect heating sources listed in the table below are subject to the requirements of this rule. However, the APCP does not consider these units to be capable of exceeding the particulate matter (PM) emission limitation (0.24 pounds of particulate matter per million BTU's of heat input) of this rule.

Therefore, as shown in the following calculations, these units are always expected to be in compliance with the PM limitation, this rule was not included in the applicable requirements section of this operating permit.

Indirect Heating Source	Heat Input (MMBtu/hr)
EU0020 – EU0024	Five Printer Ovens
EU0030 – EU0034	Five Inside Spray Bake Ovens
EU0130 – EU0132	Three Basecoater Ovens
EP - B003	Three Natural Gas Fired Boilers
EP - B004	Natural Gas Fired Water Heaters
	1.3 each
	4.2 each
	1.3 each
	6.3 each
	2.6

Total Heat Input 52.90

Regulatory PM Limit:

$$E = 0.80(Q)^{-0.301}$$

Where: E = allowable PM emissions in lb/MMBtu/hr

Q = Total installation heat input in MMBtu/hr

$$E = 0.80(52.9)^{-0.301} = 0.24 \text{ lb/MMBtu/hr}$$

Conservatively assuming 1050 Btu per standard cubic foot of natural gas, 94,000 Btu/gal for propane and using the PM emission factor 7.6 lb/MMscf for natural gas combustion and 0.4 lbs/1000 gal for propane combustion (AP-42, Sections 1.4 and 1.5, July 1998); the potential emission is 0.0072 lb/MMBtu when using natural gas and 0.0032 lb/MMBtu.

10 CSR 10-5.300, *Control of Emissions From Solvent Metal Cleaning*

The solvent operation does not fit the definition of cold cleaner in that the operation does not contain and/or use liquid solvents into which parts are placed to remove soils from the surface of the parts or to dry the parts.” Rags are used to wipe down during cleaning. Therefore, 10 CSR 10-5.300 is not applicable to this operation.

10 CSR 10-5.442, *Control of Emissions from Lithographic Printing Operation*

The installation operates five printers for the purpose of decorating cans. The printing process is by way of offset lithography. However, since printing is done on metal cans and according to 10 CSR 10-5.442(2)(C), the provisions of this rule shall not apply to printing on fabric, metal or plastic, the printers are not subject to this rule.

10 CSR 10-5.455, *Control of Emissions From Solvent Cleanup Operations*

This rule applies to any person who performs or allows the performance of any cleaning operation involving the use of a volatile organic compound (VOC) solvent or solvent solution. The provisions of this rule shall not apply to any stationary source at which cleaning solvent VOCs are emitted at less than five hundred (500) pounds per day.

The estimated VOC potential emission from the solvent cleanup operation is about 17.52 tons per year (96 pounds per day). Therefore, 10 CSR 10-5.455 is not applicable to this installation.

10 CSR 10-6.260, *Restriction of Emission of Sulfur Compounds*

This rule is amended to update emission limits and references to regulations, changes the rule organization, and brings the rule up to date. The amended rule clarifies applicability of sources subject to New Source Performance Standards and this rule. The amended rule also includes an exemption for combustion equipment that uses exclusively pipeline grade natural gas as defined in 40 CFR 72.2 or liquefied petroleum gas as defined by American Society for Testing and Materials (ASTM), or any combination of these fuels.

Combustion equipment at the installation which uses pipeline grade natural gas/propane is exempt from the requirements of this rule.

Construction Permit Revisions

The following revisions were made to construction permits for this installation:

- 1) Construction permits were modified when necessary to add monitoring and recordkeeping requirements.
- 2) To avoid redundancy, when construction permits reiterated requirements of a NSPS, these requirements are not repeated in the operating permit. Some construction permits were omitted from the operating permit because their only special conditions were such reiterations.
- 3) A condition of construction permit 0789-003 was modified to show the revised citation of the de minimis level table in the Code of State Regulations.

NSPS Applicability

40 CFR Part 60, Subpart Dc, *Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units*

Subpart Dc applies to each steam generating unit for which construction, modification, or reconstruction is commenced after June 9, 1989 and that has a maximum design heat input capacity of 29 megawatts (MW) (100 million Btu/hr) or less, but greater than or equal to 2.9 MW (10 million Btu/hr).

The three boilers at the installation have heat input capacities of less than 10 MMBtu/hr, therefore these boilers are not subject to the provisions of this subpart.

10 CSR 10-6.070, *New Source Performance Regulations*

40 CFR Part 60, Subpart K, *Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978*

40 CFR Part 60, Subpart Ka, *Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification commenced After May 18, 1978, and Prior to July 23, 1984*

The diesel fuel storage tanks are not large enough for these regulations to apply.

40 CFR Part 60, Subpart Kb, *Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984*

The storage tanks were constructed before the applicability date of this subpart.

40 CFR part 60, Subpart WW, *Standards of Performance for the beverage Can Coating Industry*

The provisions of this subpart apply to each exterior base coat operation, each overvarnish coating operation, and each inside spray coating operation in the beverage can surface coating lines that commence construction, modification, or reconstruction after November 26, 1980.

The standards in Subpart WW apply to the coating operations in line 4 except printers. Lines 1, 2 and 3, which are constructed before the applicability date of this subpart, are not subject to the provisions this rule.

MACT Applicability

40 CFR Part 63, Subpart KKKK, *National Emission Standards for Hazardous Air Pollutants: Surface Coating of Metal Cans.*

The method used by Metal Container Corporation to avoid being subject to this regulation was to accept limitations in the operating permit which limit the emissions of hazardous air pollutants (HAP's) to a rate which is less than the major source levels of 10 tons per year for any individual hazardous air pollutant and 25 tons per year for all hazardous air pollutants combined. The intent of this limitation is to exempt this installation outright from Subpart KKKK. In order for Metal Container Corporation to demonstrate that its emissions of HAP's will not exceed the major source levels, it must maintain a compilation of HAP content with associated monthly emissions for each formulation of basecoat, inside spray, varnish and ink used. All periods of catalytic shutdowns or malfunctions will be accounted for and appropriate emission calculations applied in support of documenting the annual HAP limits.

40 CFR Part 63, Subpart T, *National Emission Standards for Halogenated Solvent Cleaning*

The provisions of this subpart apply to each individual batch vapor, in-line vapor, in-line cold, and batch cold solvent cleaning machine that uses any solvent containing methylene chloride, perchloroethylene, trichloroethylene, 1,1,1-trichloroethane, carbon tetrachloride or chloroform, or any combination of these halogenated HAP solvents, in a total concentration greater than 5 percent by weight, as a cleaning and/or drying agent. Wipe cleaning activities, such as using a rag containing halogenated solvent are not covered under the provisions of this subpart.

Since cleaning is not performed with a machine but with rags and halogenated solvents as defined in 40 CFR 63.460 are not used, the mold cleaning operation is not subject to the MACT standards for halogenated solvent cleaning.

NESHAP Applicability

40 CFR Part 61 Subpart M, *National Emission Standard for Asbestos*, §61.145(a), Standard for demolition and renovation.

This regulation has been included in the operating permit because it applies to any demolition or renovation (as outlined in 40 CFR 61.145) of buildings containing asbestos at the installation.

CAM Applicability

40 CFR Part 64, *Compliance Assurance Monitoring (CAM)*

The CAM rule applies to each pollutant specific emission unit that meets all of the following:

- Be subject to an emission limitation or standard, and
- Use a control device to achieve compliance, and
- Have pre-control emissions that exceed or are equivalent to the major source threshold.

None of the emission units at the installation are subject to 40 CFR Part 64 because the uncontrolled potential emissions are below the major source thresholds for all emission units that have control devices.

Other Regulatory Determinations

10 CSR 10-6.400, *Restriction of Emission of Particulate Matter From Industrial Process*

EU0060 (Grinder), EU0070 through EU0073 (Cuppers), EU0120 through EU0122 (Basecoaters), EU0140 through EU0144 (Inside Spray Machines), EU0150 through EU0154 (Overvarnishers) and EU0160 through EU0164 (Printers) were being subject to this rule in the initial operating permit. Upon further review (see emission calculations below), the potential to emit (PTE) from each unit is less than 0.5 pounds per hour of particulate matter. Per 10 CSR 10-6.400(1)(B)11. emission units with potential to emit less than 0.5 pounds per hour of particulate matter are exempt from the requirements of this rule. Therefore, these units are not subject to the requirements of this rule.

Process information and data used in these calculations are from the Part 70 Operating Permit Renewal Application, received December 17, 2004 and 2004 EIQ.

EU0060 – Grinder

Maximum Hourly Design Rate = 0.002 tons

PM emission factor = 200 lbs/ton

Fabric filter PM control = 89.5%

PM emission = (0.002 ton/hr) x (200 lbs/ton) = 0.40 lb/hr

EU0070 through EU0073 – Cuppers (4)

Maximum Hourly Design Rate = 11,800 lbs (each)

PM emission factor = 0.0005 lb/lb

Scrap cyclone PM control = 85%

PM emission = (11,800 lbs/hr) x (0.0005 lb/lb) = 0.14 lb/hr

EU0120 through EU0122 – Basecoaters (4)

Maximum Hourly Design Rate = 0.0012 tons solvent (each)

Percent solids by weight = 56.5%

Transfer efficiency = 40% [AP-42]

Cartridge filter PM control = 89.5%

PM emission = (0.0012 ton/hr) x (0.565) x (1-0.40) x (1-0.895) x (2000 lbs/ton) = 0.085 lbs/hr

EU0140 through EU0144 – Inside Spray Machines (5)

Maximum Hourly Design Rate = 0.00077 tons solvent (each)

Percent solids by weight = 22.5%

Transfer efficiency = 80.0%

Cartridge filter PM control = 89.5%

PM emission = (0.00077 ton/hr) x (0.225) x (1-0.80) x (1-0.895) x (2000 lbs/ton) = 0.007 lbs/hr

EU0150 through EU0154 – Overvarnishers (5)

Maximum Hourly Design Rate = 0.0014 tons solvent (each)

Percent solids by weight = 39.3%

Transfer efficiency = 40.0% [AP-42]

Cartridge filter PM control = 89.5%

PM emission = (0.0014 ton/hr) x (0.393) x (1-0.40) x (1-0.895) x (2000) = 0.06 lbs/hr

EU0160 through EU0164 – Printers (5)

Maximum Hourly Design Rate = 0.00034 tons solvent (each)

Percent solids by weight = 83.0%

Transfer efficiency = 40.0% [AP-42]

Cartridge filter PM control = 89.5%

PM emission = $(0.00034 \text{ ton/hr}) \times (0.83) \times (1-0.40) \times (1-0.895) \times (2000) = 0.04 \text{ lbs/hr}$


Other Regulations Not Cited in the Operating Permit or the Above Statement of Basis

Any regulation which is not specifically listed in either the Operating Permit or in the above Statement of Basis does not appear, based on this review, to be an applicable requirement for this installation for one or more of the following reasons:

1. The specific pollutant regulated by that rule is not emitted by the installation;
2. The installation is not in the source category regulated by that rule;
3. The installation is not in the county or specific area that is regulated under the authority of that rule;
4. The installation does not contain the type of emission unit which is regulated by that rule;
5. The rule is only for administrative purposes.

Should a later determination conclude that the installation is subject to one or more of the regulations cited in this Statement of Basis or other regulations which were not cited, the installation shall determine and demonstrate, to the APCP's satisfaction, the installation's compliance with that regulation(s). If the installation is not in compliance with a regulation which was not previously cited, the installation shall submit to the APCP a schedule for achieving compliance for that regulation(s).

Prepared by:



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